

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: TMOLL@aol.com
Subject: [8339] 300 Ohm ANT
Message-ID: <970109130715_1090449722@emout13.mail.aol.com>

recently cebik stated

"And if I wear certain shoes, I can jump as high as Michael Jordan."

GREAT! Please advise which brand. I have always wanted to jump that high.
Thanks.

Really, what I want to know is this - as an old time QRPer, inactive for some time, but with renewed interest, I am now a newbie again, and want to know where I can get details on how this "fox" stuff works and how do I join in the fun? I will have several QRP rigs and BAs on the air shortly.

Tom, N0BS

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: "Marcus Leatham" <leatham@nortel.ca>
Subject: [8353] 38 Special abbreviation
Message-ID: <199701092029.PAA34446@nss2.CC.Lehigh.EDU>

In keeping with the spirit of the 38 Special name (it's an obvious reference to the firearms caliber), I think 38 Special should be abbreviated ".38 Spl", which is the abbreviation used in many firearms catalogs, reloading manuals, etc -- it's even stamped on the heads of the brass cases.

(Wearing my flame-proof jacket)
-Marcus KR5N

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Doug Hendricks <ki6ds@dpol.k12.ca.us>
Subject: [8328] 38 Special Shipping
Message-ID: <1.5.4.16.19970109102504.5a0f0444@telis.org>

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Doug Hendricks <ki6ds@dpol.k12.ca.us>
Subject: [8329] 38 Special Shipping Info
Message-ID: <1.5.4.16.19970109102506.5a0f07d8@telis.org>

A drum roll please.....

Preston Douglas called last night and left a message on my machine. The 38 Special is up and running. What does this mean? It means that the board works, and Ori, Doug, Dave and Jim just let out a huge sigh of relief!! The 500 boards we ordered was the largest order of boards that NorCal has ever had at one time, and I was nervous.

Now for the information that all of you who have ordered are interested in. When is my kit coming? Preston volunteered to be the first builder and to critique the manual. This is a very difficult job, and Preston is an expert. He has done this for Roy Gregson, Dave Benson, and Wilderness Radio, so he does have some impressive credentials. He went through the manual with a fine toothed comb, nit-picking it to death. I haven't had so many red marks on my paper since college and English 101. But, he did a wonderful job, catching a lot of mistakes, and making many suggestions for improvement.

Here is what has to happen now. I have to make the corrections in the manual, then print 1000 copies of the 20 page or so manual. Yes, the manual for the 38 Special is at least 20 pages, if not more. Very complete, and I assure you that this is a beginner's kit. The alignment needs NO test equipment, not even a DVM!! Ori has done it again.

When the manual is finished, I will drive it to Sacramento where Jim Cates will place a board, manual and bag of parts in each envelope, and send it on its way. Jim will ship the orders in the order that they came in, first in first out.

This morning I will call the board house and place another order for 500 more boards. I have to call Mouser and get more parts on the way. Why? Because we are over 500 on orders, and we will fill all of them. The board house says 3 weeks turnaround on the second batch of boards.

The bottom line is shipping of kits should start next week. That means that this project which Ori started designing in September is going to ship in 4 months, amazing.

For those of you who are new to the list. The 38 Special is a 30 meter transceiver board and parts kit (no connectors or controls), with superhet receiver, crystal filter, sidetone, offset, VXO that tunes 20 KHz, and pads on the board for RIT, 5 Watt Power Mod, TiCK Keyer (\$5 from Embedded

Research), and an improved crystal filter mod. The parts for the mods are easily available but not in the kit. The cost? \$25 US funds only plus \$3 shipping and handling in the US, \$5 DX. Send your orders to: Jim Cates, 3241 Eastwood Rd., Sacramento, CA 95821. Make checks or money orders to Jim Cates, NOT NorCal.

72, Doug, KI6DS

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: PDouglas12@aol.com
Subject: [8307] 38 Special Special Report
Message-ID: <970109081618_2089037119@emout12.mail.aol.com>

OK Gang,

Mine is done. It built up in just about four hours (though I had pre-wound the coils in advance add 30-40 min for that) and it works nicely. Came up with first application of power (well, one jiggle later) and puts out a solid 320 MW. Range was 10.111 to 10.130, on the money, and I could just hear the RTTY station at the 130 part (band condx were dead at midnight last night.) Doug has all the final corrections--and the board is error-free. It looks very good from here.

You just aren't going to believe what you get for 28 bucks including shipping.

72,

Preston WJ2V

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: dwink@juno.com (Daniel C Winkler)
Subject: [8318] 40m miles/watt record; Error.
Message-ID: <19970109.075452.4927.3.DWink@juno.com>

Gang,

It has been brought to my attention that I made a big mistake in a posting to the group. In commenting on measuring the 96 uw used for the recent mi/watt record, I stated that 100 uw would be 20mv across a 50 ohm load. THIS IS WRONG. It is 200 mv across 50 ohms, a value much easier to measure with a good scope. I shouldn't post late at night.

My apologies to anyone who read my posting and had those erroneous numbers stick in their cranium. Why oh why don't I keep my big mouth shut. (I had a junior high school teacher who made me write that 50 times each time I talked out of turn in class. Used up a lot of paper and apparently didn't learn a thing!)

An easy way to calculate power if you've looking a a peak-to-peak voltage across a known load, is $P = E^2 / 8R$. The 8 is $2 \times \sqrt{2}$. Work it out. For the usual 50 ohm load it's $P = E^2 / 400$. I've never seen this anywhere- people are always doing extra conversions (peak-to-peak divided by 2 is peak, and times $1/\sqrt{2}$ is RMS.)

SFBW

73 ; D DWink@Juno.com Dan Winkler N7IVR Seattle,
WA

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: ed.welch@cheaha.com (ED WELCH)
Subject: [8324] <NONE>
Message-ID: <8CFC1B6.0004001610.uuout@cheaha.com>

-> Not to get too crude about it, but I've always been impressed with
-> the dynamic range of a dog's nose. It can detect a lady dog a block
-> away and

I live in the country and I'd say the effective range of the dogs nose
is more like a couple of miles when it concerns lady dogs.<g>

72/73

Ed Welch KF4KRV

QRP-L #873

Luverne, Alabama

Crenshaw County - Grid EM61

+-----+
-----+ Norcal 40a es Straight Key es Wire-wrapped Trees +-----
+-----+

> Isn't "time" a 4-letter word? <

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: jerryh@webzone.net (Jerry Henshaw)
Subject: [8271] Allen Bond Power Supplies
Message-ID: <01BBFDA0.4188CE20@pm3.ppp72.webzone.net>

Hi Gang,

Excuse the bandwidth, but I keep getting email requests to re-post Allen Bond's email address for the 13.5 V 800ma power supplies. He sells the by the case only (12 units) for less than \$3.00 per unit. My case cost \$35.00 shipped to my door.

Allen's email address is:

mgs@avana.net

73's

Jerry Henshaw
KR5L / QRP
jerryh@webzone.net

ARCI 9165, QRP-L 847, NORCAL 1999
49er, ARK 20, Wilderness Sierra, (Soon 38 Special)

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Joe Gervais <vole@primenet.com>
Subject: [8366] Awk script for callsign database
Message-ID: <199701092159.0AA10936@primenet.com>

Howdy, Fellow Unix Geeks! :-)

For those of you who have access to awk (any flavor of unix, maybe some PC utils?), I just tossed together an awk script that parses through an entire session with the UALR callsign database and spits out addresses suitable for mailing labels.

Yep, got really annoyed when I was catching up on 40+ QSLs over the holiday. :-) Here's an example of input and output:

----- IN -----

Type HELP for help

LOOKUP> ab7oa

AB70A	TORELL, KENT L	LIC ISU 15-DEC-1995
EXTRA	7749 N 5 AVE	LIC EXP 25-OCT-2004
DOB 22-SEP-1955	PHOENIX AZ 85021	LST UPD 15-DEC-1995
	(PREVIOUSLY KJ7EY, ADVANCED)	

Returned 1 records.

LOOKUP> nq7x

NQ7X	SMITHBERG, FLOYD E	LIC ISU 7-MAR-1995
EXTRA	12327 FIELDSTONE DR	LIC EXP 7-MAR-2005
DOB 25-SEP-1918	SUN CITY WEST AZ 85375	LST UPD 7-MAR-1995

Returned 1 records.

LOOKUP> quit

Connection closed by foreign host.

----- OUT -----

KENT TORELL, AB70A
7749 N 5 AVE
PHOENIX , AZ
85021

FLOYD SMITHBERG, NQ7X
12327 FIELDSTONE DR
SUN CITY WEST , AZ
85375

Just thought it might help some of you from re-inventing yet another wheel. Email me and I'll send it your way. Believe me, it makes life *much* nicer when you're looking up a ton of callsigns/addresses for envelope labels....

Cheers de KC7NEV,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997

From: AC6JA@aol.com
Subject: [8385] Can Sierra put out 5Watts?
Message-ID: <970109183240_2089127309@emout10.mail.aol.com>

is there a simple mod to increase the wilderness radio Sierra power output to 5W? am getting between 2 to 3 watts on all bands at present, but am looking to make it a "full boat" qrp rig.
any help would be greatly appreciated.
tnx

72's Mike AC6JA

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Dave Adams <adamsclan@netgate.net>
Subject: [8300] Cascade problems 50% solved
Message-ID: <32D4A0EE.3C8F@netgate.net>

Well, on a tip from a list member I looked at the tx mixer in my cascade...actually, I just swapped the 2 ne602s. Voila, the rig is transmitting on 17 and 40m.

However (as always), the receiver is still dead. The audio amp works, the volume pot works, agc works...just can't seem to hear any signals. Once again, I checked the voltage points and they all seem fine so I am semi-stumped.

There is one side effect to fixing the transmit. Now when I transmit, the receiver isn't muting and is picking up major feedback as well as the transmitted voice. Very annoying. The receiver WAS muting until I started poking about this evening.

Pointers?

73 de dave, n9uxu

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: wb2vuo@juno.com (William K Hibbert)
Subject: [8269] Coax-fed Harmonic Dipoles (Longer, with more info)
Message-ID: <19970108.203927.4679.0.wb2vuo@juno.com>

The posting last night came out with the columns out-of-line, so I corrected that, and added more various lengths to the list for comparison...Keith, WB2VUO

=====

Harmonic Dipole Chart

(Frequencies in MHz)

A dipole will exhibit resonance at odd multiples of a half-wave, that is, showing a current node at the feedpoint. This will allow one to feed the dipole with coax and still tune it with the "typical" ATU easily. As the number of half-waves increase, the feedpoint impedance rises, and the SWR is --NOT-- 1:1, but the increase in SWR won't be enough to drastically increase the losses unless the coax is very lossy to start. This allows one to cut a dipole for 75 Meters, and run it on its 7th harmonic on 10 Meters, or cut a dipole for the low end of 40 and run it on its 3rd harmonic on 15 Meters and the 7th harmonic on 6 Meters. Looking at the chart, you will notice a number of lengths that are useful on more than one band.

Length (ft)	[Wavelengths]							
	1/2	3/2	5/2	7/2	9/2	11/2	13/2	15/2
50	9.36	29.04	48.72	68.40	88.08	>100	>100	>100
52	9.00	27.92	46.85	65.77	84.69	>100	>100	>100
54	8.67	26.89	45.11	63.33	81.55	99.78	>100	>100
56	8.36	25.93	43.50	61.07	78.64	96.21	>100	>100
58	8.07	25.03	42.00	58.97	75.93	92.90	>100	>100
60	7.80	24.20	40.60	57.00	73.40	89.80	>100	>100
62	7.55	23.42	39.29	55.16	71.03	86.90	>100	>100
64	7.31	22.69	38.06	53.44	68.81	84.19	99.56	>100
66	7.09	22.00	36.91	51.82	66.73	81.64	96.55	>100
68	6.88	21.35	35.82	50.29	64.76	79.24	93.71	>100
70	6.69	20.74	34.80	48.86	62.91	76.97	91.03	>100
100	4.68	14.52	24.36	34.20	44.04	53.88	63.72	73.56
102	4.59	14.24	23.88	33.53	43.18	52.82	62.47	72.12
104	4.50	13.96	23.42	32.88	42.34	51.81	61.27	70.73
106	4.42	13.70	22.98	32.26	41.55	50.83	60.11	69.40
108	4.33	13.44	22.56	31.67	40.78	49.89	59.00	68.11
110	4.25	13.20	22.15	31.09	40.04	48.98	57.93	66.87
112	4.18	12.96	21.75	30.54	39.32	48.11	56.89	65.68
114	4.11	12.74	21.37	30.00	38.63	47.26	55.89	64.52
116	4.03	12.52	21.00	29.48	37.97	46.44	54.93	63.41
118	3.97	12.31	20.64	28.98	37.32	45.66	54.00	62.34
120	3.90	12.10	20.30	28.50	36.70	44.90	53.10	61.30
122	3.84	11.90	19.97	28.03	36.10	44.16	52.23	60.30

124	3.77	11.71	19.65	27.58	35.52	43.45	51.39	59.32
126	3.71	11.52	19.33	27.14	34.95	42.76	50.57	58.38
128	3.66	11.34	19.03	26.72	34.41	42.09	49.78	57.47
130	3.60	11.17	18.74	26.31	33.88	41.45	49.02	56.58
132	3.55	11.00	18.45	25.91	33.36	40.82	48.27	55.73
134	3.49	10.84	18.18	25.52	32.87	40.21	47.55	54.90
136	3.44	10.68	17.91	25.15	32.38	39.62	46.85	54.09
138	3.39	10.52	17.65	24.78	31.91	39.04	46.17	53.30
140	3.34	10.37	17.40	24.43	31.46	38.49	45.51	52.54
200	2.34	7.26	12.18	17.10	22.02	26.94	31.86	36.78
205	2.28	7.08	11.88	16.68	21.48	26.28	31.08	35.88
210	2.23	6.91	11.60	16.29	20.97	25.66	30.34	35.03
215	2.18	6.75	11.33	15.91	20.48	25.06	29.64	34.21
220	2.13	6.60	11.07	15.55	20.02	24.49	28.96	33.44
225	2.08	6.45	10.83	15.20	19.57	23.95	28.32	32.69
230	2.30	6.31	10.59	14.87	19.15	23.43	27.70	31.98
235	1.99	6.18	10.37	14.55	18.74	22.93	27.11	31.30
240	1.95	6.05	10.15	14.25	18.35	22.45	26.55	30.65
245	1.91	5.93	9.94	13.96	17.98	21.99	26.01	30.02
250	1.87	5.81	9.74	13.68	17.62	21.55	25.49	29.42
255	1.84	5.69	9.55	13.41	17.27	21.13	24.99	28.85
260	1.80	5.58	9.37	13.15	16.94	20.72	24.51	28.29
265	1.77	5.48	9.19	12.91	16.62	20.33	24.05	27.76
270	1.73	5.38	9.02	12.67	16.31	19.96	23.60	27.24

For the calculations, I used the long-wire formula from the ARRL "Antenna Book" which allows for the end effects in a long wire. The formula is: $L(\text{ft}) = (492(n-.05))/F(\text{MHz})$, in which n is equal to the number of half-waves in the wire. If you are cutting a long wire for, say a Vee Beam or a Rhombic, the formula, using wavelengths is: $L(\text{ft}) = (984(n-.025))/F(\text{MHz})$, where n is equal to the number of wavelengths in the wire.

I have used a dipole cut for 3.83 MHz on 80, 10 and 6 meters with good results for years. By adding a 40 Meter dipole, cut for the low end of 40 (7.02 MHz) I get good results on 40 and 15 also. This gives me 5 bands on a single feedline.

If you can latch onto a copy of Ed Noll's book, "73 Dipole and Long Wire Antennas" you will see other combinations that will work for you, and not just dipoles.

The snow is flying, so the --REAL-- antenna season is here. What's a little frostbite between friends, anyway??

72/73, Keith, WB2VU0, QRP-L #582, scQRP 40, Tech Specialist (ARRL/WNY),

ARRL Life Member, VP/BARK, Beacon Chaircritter, Rochester VHF Group
Trustee, KB2YTW/B 10 Mtr Milliwattting Beacon (250 mW @ 28.2870 MHz)
"In the Depths of the Great Bergen Swamp...FN13ac"

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Marshall Emm <75230.1405@CompuServe.COM>
Subject: [8274] CQC Swap List
Message-ID: <970109023048_75230.1405_HHB46-2@CompuServe.COM>

The Colorado QRP Club's Swap List has been updated. Check it out on the web:
<http://www.mtechnologies.com/mthome/cqc.htm> or email Dick (AB0CD)
rschneid@ix.netcom.com.

73
Marshall

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: talljazz@teleport.com (Dan Presley)
Subject: [8299] Crystal Radios
Message-ID: <v0153051baefa49e9a745@[206.163.126.74]>

I came across a very neat book called the "Crystal Set Handbook" published by the Xtal Set Society. This has plans for neat crystal radios, both AM & SW bands, as well as "self-powered" detectors-using a strong signal to produce a vlotage to power a 'weak' detector-ultimate "trail" radio? A great read and a source for plans for radios for Scouts, schools, etc. I still remember my "spaceship" crystal set with adjustable ferrite rod antenna. Author is Phillip Anderson, founder of Kantronics I think call is W0XI.

Adress for society is PO Box 3026, St.Louis, Mo 63130
Dan N7CQR

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: "Richard D. Richmond" <richmord@aa.wpafb.af.mil>
Subject: [8302] Dayton Lists
Message-ID: <970109075503.648@ethel.aa.wpafb.af.mil.0>

In a recent post, Ed, N5EM suggested that a list of QRP flea market spaces would be a good thing to have for FDI and I heartily agree. I would also like

to suggest another list. Most of us are always on the look out for another rig, and even if we were not when we got to Dayton, we usually find something to drag home. My list suggestion is a collection of any of the suppliers (OHR, Dan's Small Parts, Small Wonder Labs, etc.) that will be at Dayton and the rigs (and any possible Dayton Specials) that they will be selling there. A little advanced advertising such as in QQ or Qrp and here on the net would help us plan for purchases and, I would think, generate a little business. At the risk of stepping in it with both feet, I will offer to collect any such information that the companies want to send me and post it here as well as get it to the FDIM people. Look forward to hearing from you folks.

Rich Richmond, N4AFX
richmord@aa.wpafb.af.mil

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Jim Hydzik <congress@magpage.com>
Subject: [8331] Delaware FSFD Report KA3LLL/K3QIO
Message-ID: <199701091623.LAA03451@alaska.magpage.com>

Riding the QSB waves. Fun and interesting

15 meters was totally dead and although 20M was open, no USA takers.

Band	UTC	Call	Sent/Rec	QTH	Info
40M	1354	N4BP	449/579	FL	Bob 5W
"	1405	AA8DL	569/579	Ohio	100 wts
"	1407	K8IDN	559/579	Ohio	Steve
"	1418	K8BVJ	569/579	MI	Jack Old Swan XCVR
20M	1502	G3R00	339/349	Dover, UK	Ian HB 5W 2ELE quad
40M	1525	K3AS	599/599	DEL	Bill Checking in
30M	1700	W9BRD/VE3	569/589	Ottawa	Rod 3' sides Mini-Loop in shack
30M	1716	N4BP	329/329	FL	Bob 5W
17M	1934	WA0UIG	339/339	IA	Russ 5W 734

KA3LLL's	80M run	Thursday	UTC	Jan.	09
80M	0033	WA1QVM	449/579	MA	Joel
	0035	W2DP	599/599	NJ	Bill 5W
	0037	N3KFL	579/589	PA	AL 5W
	0045	K4NK	339/339	SC	Les 4W
	0052	K3AS	599/599	DE	Bill 5W
	0109	N3REY	559/559	MD	John 5W
	0114	WZ2T	559/449	NY	Rick 5W
	0117	KT3A	339/559	MD	Cam
	0128	K3TL	599/559	PA	Rick QRO work buddy

0133	K4WZ	549/449	GA	Ron
0135	KS4HQ	559/559	NC	Bob
0150	WA1UPB	569/469	NC	John
80M 0151	K8OWL	449/459	WV	Carl HB TX neat sound

K3QIO 40M night run

40M 0209	AC5AM	549/449	LA	Bob
0212	W5HNS	579/459	TX	Henry 45 Wts?
0214	W0LK	339/339	AR	Bob 5W
0217	K4NK	449/449	SC	Les
0218	WB8AJ0	449/559	OH	Bill 3W
0224	KA5T	339/339	TX	Larry
0226	K8IDN	569/569	OH	Steve
0230	KK5RO	459/449	OK	Vernon
0234	KW4Z	559/449	GA	Ron
0240	AC5II	339/339	OK	Don
0242	AA8EB	449/459	OH	Mike
0245	AA1BK	339/559	NC	Steve
0247	KD6YIX	439/339	CA	Gud QDB peak, then fade
0249	K7TP	339/339	CA	Grover was up to 449
0251	WB8POH	579/559	TN	Dave in Morristown
0257	N4SO	579/339	AL	Ken Storms in the South
0304	WK8S	229/229	MI	2xQSB
0310	K7BGS	339/lost		in the big fade
0315	KA3WAJ	579/579	PA	Ray TS-520S Dipole 100W
0325	AC6KW	559/449	CA	Jeff Best sig out west, ^to 569
0332	N9DAW	449/339	IN	John 4W
0335	NQ7X	449/229	AZ	Floyd
0337	KI7MN	449/229	AZ	Bob Plus reck at 0347
40M 0356	?B0?	cpy my call fine then fade, lots of retries, sri		

EQUIP: All contacts made with Alinco DX-70t and Daytong FL-3 set at 500 HZ BW and not really needed.

ANTENNAS: 40M Dipole @ 35'/350' LW @ 35' switched on every QSO and alternated CQ's on each.
 30M Full size diamond Loop-top @ 55'/350' wire Alt CQ's
 80M Dipole at 30'/350' LW and 30M loop for occ. RX,
 Dipole & LWire switched on every QSO
 20M Delta Loop @ 35'/20M dipole @ 35'/350' LW

QRN Note: Ice and rain storms from LA to East coast showed up in most reports from the South....good reporting guys (where's Laura?)
 Lots of little dits and dahs in the background. Catch U next time.
 17M was long. 5 & 6 landers rx'd at 449 all the time (QR0?).

QSL Info: K3QIO: 5611 Ball Road, Wilmington, DE 19808 if You need a card.
 KA3LLL: Jim/KA3LLL C/O K3QIO above. He's moving from New Castle, DE

Jim K3QIO Delaware, email me if you need me.
Love That Great Drake Sound

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: d.nordquest@juno.com
Subject: [8293] Dynamic Range of Hearing
Message-ID: <19970109.002116.4455.2.d.nordquest@juno.com>

According to an old physics text I have, the threshold of hearing occurs at a power flow of 10^{-6} microwatts per square meter. At least until the invention of car stereos, the upper level of hearing was defined as a power flow of one watt per square meter, which causes not only sound, but also a tickling feeling in the ear.

The range of power flow considered audible, then, is from 10^{-6} microwatts to 10^6 microwatts, a difference of 10^{12} (1,000,000,000,000) or of 120 decibels -- better than an NE602!

Wonder if Joe's dog's nose beats that?

Dave KE9ED

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>
Subject: [8383] Fargo...
Message-ID: <Roam.3.0.1.852851861.3472.myers@bigboy>

All this talk about ND reminds me of a movie I saw last month - 'Fargo'. If you like dark (brutally dark) comedies in the European form, this one is excellent...

Now, back to the regularly scheduled discussion of why UTC is better (as if this topic even requires discussion!?!?).

;-)
Dana K6JQ
Dana@Source.Net

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Jess Gypin <jessqrp@concentric.net>

Subject: [8294] First DX with Emtech NW40
Message-ID: <32D1E06D.4272@concentric.net>

Hi all,

Not that big a deal I know but I got jazzed. Just had finished some chores and decided to stay up an extra 20 minutes. I had just installed the right resistors in the Emtech NW40 audio filter (thanks Roy!) the other day. It has made a BIG difference in the audio hiss and pulling up the received signals. Cuts the hiss and pops the signals, what more could you ask for. Decided to listen to the low end of 40 meters to check out some weak signals as the upper end around 7040 was really busy (way to go guys!). I tuned across about 7005 and heard a CQ and then a quick 559 sig report to QRZ'd so I knew it was DX. I listened for another second and got the call at about 30 wpm of ZK1DI. One of the Cook Islands. Heard him answer a W6 and then CQ twice. Sent N0TFI X 2 and heard a TFI ??. Sent again and got N0TFI 559 559 BK! Cool! I sent 559 559 TU de N0TFI. Another new one (QRP) in the bag! I wonder if I would have sent /QRp if he would have answered ;-). Ya gotta love it. Power was 4 watts into the Gap Titan. Way to go on a nice rig Roy. You gotta order the audio filter if you get one of the Emtech rigs. Makes all the difference!

Best
Jess N0TFI
<http://www.concentric.net/~jessqrp>

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Bob_White@CCMAIL.sms.lmco.com
Subject: [8319] Fox - W03B - Tonight!
Message-ID: <9700098528.AA852836429@CCMAIL.sms.lmco.com>

MD FOX W03B - COMING UP THURSDAY EVENING

01:30 - 03:30 UTC 10 January 1997

7.035 - 7.045 Mhz

I will start out on 7.037 Mhz and attempt to stay on the low side of 7.040 Mhz.

If I have to take a break during the run, (like say goodnight to the kids), I will extend the time period by the amount of the break time, (see Fox Rule #F5F0saysso).

Don't be surprised if I am still around after 03:30 UTC as the kids

normally go to bed at 21:00 EST. Unless of course we are visiting Grandma and Grandpa in NE, then they go to bed at 21:00 CST which is 22:00 EST and an hour past their normal bedtime when they are at home.

But then again, Grandma and Grandpa have a tendency to spoil the kids, so at times they don't get to bed until 21:00 MST or even 21:00 PST, but what the heck, they are on vacation when we visit Grandma and Grandpa. Wait, we normally go on vacation during the summer, so that would make their bedtime 21:00 CDT which is really 21:00 EST so I guess it really is all inconsequential.

Bottom line:

See ya all on 7.037 Mhz, 01:30 - 03:30+ UTC 10 January 1997.

72,

Bob White W03B QRP-1 #195

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997

From: w0ch@juno.com

Subject: [8333] FOX REPORT: W0CH 1/7/97

Message-ID: <19970109.111258.2215.0.W0CH@juno.com>

Well gang, the conditions Monday night (1/7/97 UTC time) were rotten. The band was long with QRM from both the foreign SSB and the digital folks. I started out with high hopes a bit above 7038 but soon ran into problems from the QRM. I moved up higher in the band (around 7040) but had few callers there. Moved back down to the 7038 region and ran long periods of time without any hounds to be heard.

Did not work any close-in stations at all. Not a single Texas station to be heard (sorry Chuck).

Fortunately, I managed to convince the boss that I needed to be home Monday night so did not have to work from the mobile. Would have been really hard from the car.

Anyway, here's the Mulefox log (thanks to Bob N6WG for that great story):

TOTAL QS0'S:	24
STATE	QS0'S
CA	14
AZ	4
MA	2
CT	1
FL	1

MD 1
NY 1

QSO	TIME	CALL	SENT	RCVD	STATE	NAME	NUMBER/POWER
01		0301 K5LE	559		579	CA	JIM
	534						
02		0304 KA1AXY	559		599	MA	PETE
260							
03		0305 K6JI	559		559	CA	DENNIS
303							
04		0306 N6XU	559		559	CA	STAN
66							
05		0308 KF2PH	559		359	NY	NICK
13							
06		0309 K1CL	559		559	MA	CHUCK
217							
07		0311 KC1FB	559		559	CT	JIM
29							
08		0314 N6WG	559		559	CA	BOB
27							
09		0316 KE4YH	569		559	FL	STEW
590							
10		0319 W6BAB	559		559	CA	HARVEY
5W							
11		0320 KD6YIX	569		559	CA	MIKE
533							
12		0332 W6EMD	569		559	CA	DAVE
294							
13		0337 W03B	559		339	MD	BOB
195							
14		0338 K6VNX	559		559	CA	ARLEN
5W							
15		0339 W6ZH	559		569	CA	PETE
257							
16		0341 W6SU	569		559	CA	JOHN
48							
17		0345 N6MM	559		579	CA	HARVEY
318							
18		0357 KI60Y	559		559	CA	LEE
837							
19		0408 KK7BD	579		569	AZ	DAN
696							
20		0410 K2VCO	559		569	CA	VIC
725							
21		0421 WD6FDD	449		559	CA	RICH
5W							
22		0430 NQ7X	559		449	AZ	FLOYD
343							

23	0438	NQ7K	559	569	AZ	MIKE
	47					
24	0454	KC7NEV	559	119	AZ	JOE
	191					

Near miss: WA6NAE? Sorry, lost you in QSB.
 Loudest station: KK7BD - made my night!

Rig: Kenwood TS-530 tuned to 5 watts using Bird 43 wattmeter.
 Antenna: 132 foot off-center fed Zepp at 50 feet, 450 Ohm balanced line
 and Johnson Matchbox tuner.
 Location: Seneca, Missouri - on the farm in the southwest corner of the
 state.

Thanks to all who tried to pull me out of the mud.

72,

Dave Bixler W0CH (the Mulefox)
 Seneca, MO

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
 From: Jim Hydzik <congress@magpage.com>
 Subject: [8374] FS: Alinco DX-70T mobile rig
 Message-ID: <199701092134.QAA28111@alaska.magpage.com>

I've only had this rig eleven months and find I don't really spend enough
 time mobile to justify it. Offering it at a bargain price...in perfect
 condition.

Alinco DX-70T HF + 50MHz all mode transceiver
 EDS-4 Front Control remote kit
 EDS-5 Microphone extension cable
 EBC-9 mobile mount bracket
 Spare power cord
 EDX-2 automatic antenna tuner w/cables

All docs included. The rig will run at 5W for qrp.

I'm asking \$900.00 plus shipping. If interested, please reply direct.

Pick up only in Wilmington, DE

Jim K3QIO

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: "Wilford D. Lindsey" <70511.3041@CompuServe.COM>
Subject: [8352] FS:OHR Classic 40/20
Message-ID: <970109201520_70511.3041_IHD123-1@CompuServe.COM>

Gang:

Have FS excellent OHR Classic Dual-Bander 40/20. Completely assembled, ready-to-go. No building required.

Very quiet, sensitive, selective. Has RIT, plenty of audio. Would be easy to transport to the field due to its light weight and compact size/shape. Pristine condition, absolutely unmarked case.

Price = only \$185, including UPS shipping anywhere in Continental USA. Also includes 2500mAh gel cell at no extra charge.

72/73,
--Doc/K0EVZ QRP-L #861

72/73,
--Doc/K0EVZ QRP-L #861

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Jim Hydzyk <congress@magpage.com>
Subject: [8375] FSFD (50 States) Update for Jan 09
Message-ID: <199701092143.QAA28880@alaska.magpage.com>

Hello ALL, (activity info at <http://www.dancris.com/~ki7mn>)
Resent 1/9 4:40 PM EST...something wrong with 13:30 send-off
UTC TIMES will begin JAN. 12 (tks for the input)
*****NOTE***** LAST MIN. CHANGES to FLORIDA KK4KF and N4BP *****

The 50 States In 50 Days (FSFD) activity started Jan 01 and runs through Feb. 20. Below is a the schedule of States for the next few days. We will attempt to provide digested schedules of states/times/bands/freqs. to help reduce message traffic to the reflector. Typically, 1 message per day only.

--> (Thursday evening is tricky, 2 states plus fuzzy FOX)
Thanks to all who have activated their state and provided a lot of fun for all.

Jan. 09 Thursday FLORIDA KK4KF, Bill: 6:30->7:30 AM EST 3.710
6->7:30 PM EST 7.108
NOVICE 7:30->9 PM EST 3.710
ADDED TODAY-----> 10->11 PM EST 3.710

N4BP, Bob: 1->4 PM EST 14.058
4->5 PM EST 10.115
5->7 PM EST 7.038
ADDED TODAY-----> 10->10:30 PM EST 7.038

****Note: SEE N4XY, below. Ed starts on THURSDAY Evening FROM GEORGIA
(FOX is W03B, see his posts to QRP-L)

Jan. 10 THUR+FRIDAY GEORGIA N4XY, Ed, Start THURSDAY Night as follows:

THURS: 7->8 PM EST 3.560
Start @ top of hr for 15 min. 8->9 PM EST 7.040
and stay until no action for 9->10 PM EST 3.560
15 more minutes. 10->11PM EST 7.040
11->Midnight 3.560
FRIDAY EST Midnight->1 AM EST 7.040
1 AM->2 AM EST 3.560 sleep

20 or 30M condx, ck both 1 PM->2 PM EST 14.050/up or 10.115 +/-
2 PM->3 PM EST 7.040

20 or 30M condx, ck both 3 PM->4 PM EST 14.050/up or 10.115 +/-

FRIDAY W4ED (ex-ae4ca), Bob: 5->7 PM EST 10.115
7->10 PM EST 3.562

Jan. 11 Saturday LOUISIANA #1 LA is split into two Saturdays, this
one and Jan. 18. Due to MI QRP Contest (be sure to work it) Bob AC5AM
will run the following schedule, and next Sat. (MI Test) K5RV will go
until 6 or 7 PM only.

AC5AM, Bob 5:15->6 AM CST 3.555-60
6:30->8 AM CST 7.040 +/- 4
8:30->9 AM CST 7.112-118
10->11 AM CST 10.115 +/- 3
2->2:30 PM CST 21.060
3->4 PM CST 14.057
5->6 PM CST 7.040
Changes 6:15->7 PM CST 3.555-60
From 7:30->8:30 PM " 7.040
Previous 8:30->9 PM CST 3.555-60
Posting 9->9:30 PM CST 1.810
9:30->9:45 PM " 3.555-60

Begin change over to UTC at this point

Jan. 12 Sunday IDAHO AB7TK (ex-WB5QMP), Randy

1600-1800	UTC	7.038
2000-2100	UTC	14.058
2300-0200	UTC	7.038
0400-0600	UTC	3.560

Jan. 13 MONDAY ILLINOIS N9HH, Bill

1300-1330	UTC	14.060	+2/-5
1330-1400	"	10.108	+/-2
1500-1530	"	14.060	
1530-1600	UTC	10.108	

0100-0300 (TU) UTC 7.037

If band dead, look on 7.108 at 0130 UTC

Jan. 14 Tuesday INDIANA N9DD, Tom

1800-1930	UTC	14.059
2000-2130	"	10.115
0130-0300	"	7.042
0330-0500	"	3.562

Jan. 15 Wednesday IOWA KD0CA, Jerry

1230-1345	UTC	3.559
0100-0300	Thur-UTC	7.042
0300-0330	" UTC	7.039

Most every sign-up came with a note saying they would go longer if busy.
Frequencies are +/- QRM & typ. may reach as far as 3-4 KHz from posted freq.

CALLING CQ: A suggestion. If we call CQ WAS or WAS QRP de K6.... etc,
we give those not on QRP-L an indication of what we're doing. FSFD type
calling might be too cryptic for all but ourselves. However 'FS' is fine
when busy. Exchange RST, State/Province/Country, and Name. Power level is
nice to know.

ALASKA & HAWAII: Jim-AL7FS is back from Hawaii and will activate ALASKA as
soon as KL7Y's 40M beam repairs are complete. Watch for Jim's postings.
Thanks to him for the HI effort.

KB0ROL will also be in HAWAII between Jan. 17-25 and will post his time/freq
info to the group when ready. Don't miss this double QRP HI shot.

Volunteers still needed for: KS, ND, TN, WV.

Anyone else want to sign-up, e-mail band/freq/time directly to:
congress@magpage.com

Thanks for all the responses/encouragement and suggestions. Lets have a blast!

Jim K3QIO Wilmington, Delaware

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Bob Patten <n4bp@shadow.net>
Subject: [8327] FSFD FL
Message-ID: <Pine.SOL.3.91.970109121119.3778B-100000@hyper>

I'm awake, some quick lunch and I should hit 14.058 +/- before 1PM EST...
Fingers crossed for propagation.
In addition to posted sked, I'll be on 7.038 from 10 to 10:30PM EST...

73,

Bob Patten, N4BP
Plantation, FL
n4bp@shadow.net

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: k3as@dol.net (Bill Marsh)
Subject: [8285] FSFD LOG - K3AS Jan 8&9, 1997
Message-ID: <v01540b00aef9dfc97478@[204.183.91.67]>

FSFD Log, K3AS, Delaware, January 8&9 (UTC), 1997

Rig: Tentec C-21, 5W output. Antenna 60 foot wire in attic.

UTC	CALL	RST(r)	RST(s)	SPC	NAME
-----	------	--------	--------	-----	------

Freq: 14.059 +-

1718	N4BP	589	569	FL	BOB
1729	XE1/WB5VI(?)	549	449	MEX Slow	QSB into noise and back out again, etc.

Freq: 7.042+-

1518	K5ID	549	439	AR	KEN
------	------	-----	-----	----	-----

1520	K4WZ	559	559	GA	RON
1523	K3QIO	599	599	DE	JIM

Freq: 3.556+-

0050	KA3LLL	599	599	DE	JIM
0204	WK4W	579	569	MN	SCOTT
0211	N8ZP	439	449	MI	DAN
0228	W2DP	449	559	NJ	BILL
0234	N9DD	339	549	IN	TOM
0238	VE3JC	559	549	ON	JOHN
0301	W1ME	339	339	ME	GEORGE
0354	KF2PH	269	329	NY	NICK

No signals of any kind on 15, no QSOs on the afternoon session on 40.
If you called me and I didn't hear you, I'm open to schedules on an individual basis, drop me an e-mail. 72 all and thanks for the QSOs!

Bill K3AS Delaware

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: "Bob Tellefsen-CNSE97" <Bob_Tellefsen-CNSE97@email.mot.com>
Subject: [8368] FSFD:ND stns
Message-ID: <M1227321.001.rgo90.1.970109215032Z.CC-MAIL*/OU=LMPCC10/OU=ILBE/PRMD=MOT/ADMD=MOT/C=US/@MHS>

I've been watching the pleas for volunteers to put some of the rare states on the air. Many of us are looking for ND, for example. I wonder if we are just fooling ourselves. Does anyone know if there are any hams in ND, and if so, are any of them QRPers? We could be standing guard over an empty mouse hole. :-).

The idea I saw posted for a summer FSFD might have possibilities, in that some vacationers or travelers passing through might be able to hand out some QSOs. We seem to have a pretty well-defined "empty quarter" in our radio desert.

72, Bob N6WG

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997

From: "Laura" <sputnik@imt.net>
Subject: [8350] Fw: QSB reports, et al...
Message-ID: <199701092013.NAA24716@cu.imt.net>

It was requested I post this to the list, so here it is for all who are interested, and thank you, Cameron.

Laura, KJ7UN

> From: CBAILEY@PAMDT.ANG.AF.MIL
> To: sputnik@imt.net
> Subject: re: QSB reports, et al...
> Date: Thursday, January 09, 1997 3:01 AM
>
> Hi Laura!
>
> Could you post this list?
>
> I'm guessing it may similiar to the following:
>
> 1=only slight fading
> 2=slight fading
> 3=fair amount of fading
> 4=moderate fading
> 5=severe fading
>
> If it were published, more would use it.
>
> 72 from snowy central PA,
> Cameron, kt3a

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Glen Leinweber <leinwebe@mcmail.CIS.McMaster.CA>
Subject: [8261] Hearing dynamic range?
Message-ID: <1997Jan08.185835-0500@[130.113.234.7]>

Two recent posts, one about 3rd order intercepts and the other about hearing weak signals in noise, coagulated somehow in my grey matter (IN my head, not ON it) into this:

What's the dynamic range of our ears?

The smallest signals we can hear compete with the sound of blood rushing thru our bodies, our bones creaking and other environmental noises. This lower threshold must be pretty well documented.

At the loud end, our hearing must encounter a non-linear limit something like IMD or gain compression in a receiver.

I've just been trying this with two speakers connected to two different sine-wave sources whose frequencies I can vary.

Yes, when the two tones get loud enough, you can hear the beat-note, particularly the difference frequency, a 2nd order effect. Can't seem to hear the sum frequency, or 3rd order effects.

Yeah, I can imagine Chuck saying "Quit thinking about hearing, get on the air, and just DO it".
72, Glen VE3DNL

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: highland@cityscape.net
Subject: [8282] HW-32A Operations Manual
Message-ID: <32D46A1D.EBE@cityscape.net>

I have a friend who is in need of a HW-32A Operations Manual, if you have one could are willing to make copies could you please email me.

Thanks

de KA9KQH, Dwayne Terry

--
....quitely making noise.....
mailto:highland@cityscape.net

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Steve N0TU <N0TU@webaccess.net>
Subject: [8340] Is SkyTec still making CW/spkr??
Message-ID: <32D539AF.31F2@webaccess.net>

Several years back (maybe 10yrs) I owned a neat lil' speaker from Skytec(sp.) It acted like a cw audio filter. Anyone know if they still exsist??? Anyone have one the would part with??.....Steve

--
portable/solar powered QRP QRP-L # 911
49er/HW8/ExplorerII/Zepp in attic @ CO SPGS,CO ARS # 206

-----C_U L____D_E____N_0_T_U____.____

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Jim Bennett <jbennett@ebmud.com>
Subject: [8314] Jim Cates Info
Message-ID: <32D50821.811@ebmud.com>

Can someone supply me with the e-mail address of Jim Cates, the "collector" of the 38-Special orders? I'd like to ask him if he got my order back in early December, as I've heard nothing since mailing it in.

Thanks, 72 & 73, Jim.

Jim Bennett / W6JHB (jbennett@ebmud.com)
Supervising Systems Programmer
East Bay Municipal Utility District
Oakland, CA 94607
voice: 510.287.0224 / fax: 510.287.0373

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Elliott Lawrence <edl@pacbell.net>
Subject: [8320] KC1 For Sale
Message-ID: <32D513CC.2CDF@pacbell.net>

I have a KC1 Keyer and Frequency Counter Kit from Wilderness Radio designed for the NorCal 40A and Sierra Transceivers. Also will work on other radios with suitable vfo and if frequencies. The kit has never been opened and is in perfect condition.

Asking \$43 including shipping.

72,
Elliott WA6TLA

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [8361] LDG group buy - brief update
Message-ID: <Pine.3.89.9701091611.B3691-0100000@w3eax.umd.edu>

Current tally:

AT-11 kits	20	(\$135)
AT-11 encl.	16	(\$ 30)
QRP kits	13	(\$ 85)
QRP encl.	7	(\$ 25)

If we can get FIVE MORE of the AT-11s, the price goes from \$135 to \$127.50 and I can tell everyone how much \$\$\$ to send me.

Remember, the purchase closes FRIDAY, JAN. 17.

I apologize for the daily status reports, but then again, not really. They're entertaining, right?

Ob. QRP:

Since starting this group buy, I've had no time to operate. AAarrggggghhh!

Not to worry, it's worth it when people thank you. And they have been.

Thank YOU!

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 138 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** 145.490- 147.225+ PL 156.7 *

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: "William R. Colbert" <v31xe@dzn.com>
Subject: [8266] N/T fox
Message-ID: <32D4643D.22D0@dzn.com>

I get the list in digest form. I noticed that the fox tonight will be in the Novice/Tech category. I did not see a correction to the frequency posted, and believe it should be 7.112, not 7.212. About 45 minutes to go, so I will see which it is. GL in the chase.

--

72/73, Ray Colbert, W5XE, SOWP 1064M
(also af852@rgfn.epcc.edu)
El Paso, Texas

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: "William R. Colbert" <v31xe@dzn.com>
Subject: [8272] N/T fox
Message-ID: <32D47491.324B@dzn.com>

Barry has a good signal with no qrm (one tuner upper). Good to

hear/work you Barry. GL

--

72/73, Ray Colbert, W5XE, SOWP 1064M
(also af852@rgfn.epcc.edu)
El Paso, Texas

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Barry Keating <Barry.P.Keating.1@nd.edu>
Subject: [8309] N/T FOX Report for Wednesday
Message-ID: <v03007802aefaa1a46f70@[129.74.87.62]>

*** N/T Fox Report for Wednesday, January 8th ***

TIME	STN	NAME	ST	RST	NR
0211	W5XE	Ray	TX	459	236
0239	KA5T	Larry	TX	339	89
0308	W5TFB	Jack	TX	549	282
0312	N9DD	Tom	IN	589	32
0326	KK4KF	Bill	FL	559	755

Thank you all; especially those who
listened without success this time around.
Except for some QRO stations the band sounded quite
quiet in South Bend; I did have to change frequency
once to avoid being drowned out.

Barry Keating
WD4MSM
South Bend, Indiana (90 miles east of Chicago)
MFJ 9040 running 5 watts
Radio Shack DSP
G5RV antenna (half-size, 52') up 30 feet

Next Fox date: Next Thursday (January 16th) !!

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Doug Hendricks <ki6ds@dpol.k12.ca.us>
Subject: [8330] NC38S
Message-ID: <1.5.4.16.19970109102739.5a0fa228@telis.org>

I like the suggestion of using an abbreviation for the 38 Special. How about NC38S? Thank's Chuck, you are right on again. 72, Doug, KI6DS

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [8356] NC38S Crystal Filter de Ori
Message-ID: <199701092101.VAA06152@chuck.dallas.sgi.com>

Gang,

Here is email that I got from Ori on the crystal filter and thanks to Preston Douglas on the posting of the slot available for one more crystal. I'm sure, even though we are told that it is difficult, we'll have some of us attempt to play with the additional crystal. :-)
QRPers like a challenge. ;-)

>Chuck,

>

>We are all excited here. People will start seeing the kits

>at the end of next week and then the fun begins...

>The 10.116 is an excellent freq and if it wasn't clear which

>is the QRP freq then the 38S should settle that dispute.

>

>Now, regarding the IF filter. As you said, other circuit

>parameters change the behavior of the crystals. Also crystals

>from different manufacturers will show different characteristics.

>That's why we haven't been talking much about this mod.

>It is more involved than the other mods, since you can add

>crystals and degrade the performance easily.

>My suggestion is to buy "standard" crystals from a known

>manufacturer, such as ECS (available from Digikey) and develop

>the circuit using those. With a calibrated signal generator, a scope

>and a few hours of tweaking you can do the job, but people must

>be aware of the sensitivity of this particular circuit and its

>major impact on performance.

>

>I'm sending you this direct. Feel free to post that to the net.

>
>Let the 30M band roar!
>
>CUL
>
>ORI ori@juno.com
SIG
Chuck Adams K5FO adams@sgi.com

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [8384] ND
Message-ID: <199701092322.XAA06946@chuck.dallas.sgi.com>

Gang,

I've been in 48 states. Two that I'm missing are ND and SD.
SD I've seen in a movie once. So we may be onto something.
This in reference to a post questioning the existence of
ND. :-)

I have found two QRPers in the whole state. The state in
question being ND. Maybe Jim can drop KF0XI a card and
see if he can do it.

TN should be easy with AC4HF. I think I have that right.
Jeff? You still there? Moved? Hiding?

So if you are in the missing states and are on this list
come on down. Fame is just a heartbeat away.....
The hounds are out and we have ways to find you. ;-)

I could go to ND myself, but I prefer to wait until the
summer, if that is possible. :-) Do I get a bonus for
FYBO for February? :-) I don't think American or
Southwest Airlines go there. Does any airline go there?

I've worked Earl, W0VKB/qrp, on 40M and 20M from Grafton, ND.
All others have been QRO on their end.

So close, yet so far from all 50.

dit dit
SIG
Chuck Adams K5FO adams@sgi.com

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: wager@juno.com (James W. Cates)
Subject: [8344] NorCal orders from U.K.
Message-ID: <19970109.111044.9694.73.wager@juno.com>

For the convenience of members in the United Kingdom, NorCal is able to accept British pounds in payment of subscriptions, kits, or anything else offered by the Northern California QRP Club. The rate of exchange varies, so check with your financial house (bank), or I can get the current rate for you. E-Mail me for details prior to your order(s).
Tnx. jim, WA6GER, for NorCal.

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: pmk@juno.com
Subject: [8280] Novice / Tech FOX Where is Barry hanging out at ??????????????
Message-ID: <19970109.033633.4759.0.PMK@juno.com>

Anyone find Barry yet and what freq ???

tnx es 73 de Patrick KD4OBQ

ar

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: lve1@inel.gov (Larry V East)
Subject: [8351] Power MOSFET for RF?
Message-ID: <2.2.16.19970109201609.19273ad6@eloi>

Several weeks ago, someone mentioned a power MOSFET that was better suited for RF work than the IRF510/IRF511 devices. I seem to have lost the device number -- could someone send it to me again? Or, if you have a suggestion for a MOSFET that can deliver 5W or so output thru 10M and will operate efficiently (and linearly) from 12V, please let me know.

Tnx and 72, Larry W1HUE

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Burnley <burnley@netins.net>

Subject: [8281] puppies, power supplies, and Reflections
Message-ID: <32D45F48.1FDA@netins.net>

Gang,

You know you're having a bad day when you come home from lunch and discover the puppy has chewed your "hidden for covenants" vertical antenna into two pieces. Arrrrrrrrggghhhh! Yes, Mutt-zilla is on the endangered species list! Fortunately this story has a happy ending.

As I'm back at work plotting the puppy's very slow demise, my son calls. He says I have a very heavy box that was just delivered. My power supplies from Allen Bond have arrived! Well the day is now getting a little better. Immediately after hanging up the phone rings again. It's Tammy from Barnes and Noble. She tells me my book order is in! Yeah right I'm thinking to myself. This book has been out of print for almost a year. "Are you sure?????", I ask. "Yes", she says, "'Reflections, Transmission Lines and Antennas' arrived today. And it's a hard covered book so you get 10% off the price!." Somebody pinch me quick.....I can't believe it.

Back around digest 588 Dan Keen posted some possible sources for obtaining 'Reflections' by Maxwell. He gave the ISBN number 0-87259-299-5 and suggested trying to order it from a bookstore like Barnes and Noble. And that's exactly what I did and the supplier had a copy. For those of you trying to obtain a copy don't give up! So at quitting time I make the mad dash and get my copy for \$18.90 (taxes included).

The day ended with a bang and to celebrate I took the puppy for a walk. If only it didn't think rabbit droppings were caviar.

72/73,
John
NU0V
Urbandale, Iowa
Norcal, NWQRP, NEQRP, CQC, QRP ARCI

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [8304] QLF/QHF
Message-ID: <Pine.SOL.3.94.970109075026.10378A-100000@utkux4.utcc.utk.edu>

Been under an influenza haze, but seem to recall a few comments to the effect that by the 50s and 60s, QLF and QHF no longer had assigned

meanings.

According to "combined Operating signals," CCBP 2-2, 1944, QLF meant "your frequency is slightly (or ---kc/s) low" and QHF meant "Your frequency is slightly (or ---kc/s) high." Applied to Air Corps and Army services.

CCBP 2-2 is interesting, since each signal is listed in two ways. Left hand pages give signals in alphabetical order. right-hand pages give signals by reference to content, for example, those relating to frequencies, those to equipment, etc.

QN- signals had war-time uses, but apparently went unassigned after the war. The ARRL QN- series is considered unofficial, usable only on ARRL nets, and exists only because they are unopposed by military and other operating circles at present--according to a recent edition of the Operating Manual.

The list I presented from the 1930 ARRL Handbook omitted QRP (someone eventually caught that). ARRL did not give the list as complete, but as a list most useful to hams.

As CW disappears from commercial and military communications circles, the "official" Q-signal list will grow ever more vacant, so hams may choose a list from whatever era they have the most nostalgia for.

Also, feel free to fill in blanks in creative ways.

QID? = Is your ----- faulty?

QID = My ----- is faulty.

CCBP 2-2 gives no clue what might fill the blank. Hence, your choice.

-73-

LB, W4RNL

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: "J.B. Fox" <w5hir@mail.phoenix.net>
Subject: [8355] QLF/QHF
Message-ID: <199701092055.0AA11295@mail1.phoenix.net>

During WWII I was in Pentagon Signal Corps message center for a while, and Philippines with Signal Outfit as well. At THAT TIME (I don't know about the rest of the time) but we often sent the "Q" signal QLF (

which BTW was

unauthorized Q signal) to the operators on other end meaning " Quite sending with your left foot" As for QHF, who knows???

ponding old times... Foxy

w5hir #822

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997

From: Steve NOTU <NOTU@webaccess.net>

Subject: [8284] QRO brother-in-law's HW100

Message-ID: <32D47236.50F3@webaccess.net>

I've almost convinced myself to resist the temptation of my brother-in-law's offer. He wants to give me his +QRO+ rig, an old HW100 just for the price of shipping. I said I would think about it...The sleazy side of myself sez go ahead and get it! Maybe I could disable the finals(would this be hard?). Does anyone know what the 12BY7 driver's output is approximately?

Hmmm...would it be hard to QSK the old beast?? WAIT!!!!..Worse yet...What if I plugged the beast in *just to see if it worked*... and I succumbed to using +QRO+ AAAARRRRGGGGHHHHH!...would my QRL-L e-mail ever find my IP again??...Would I be haunted by heavy QRO QRM from hear on!!! even if I said I was sorry? But really, is it worth the effort?...I sure could use a lil' more heat in this basement ham shack...Should I or shouldn't I... Maybe I could trade him a 38 special for it...Oh yeah..(I think he hates CW)? Blast! (;-0 Too many rigs now...soo little time now ...and definatly toooo few good antennae!

Bewildered.....Steve

--

73/72's_____D_E__N_O_T_U_____
portable/solar powered QRP-----QRP-L # 911
49er/HW8/ExplorerII/Zepp in attic @ CO SPGS,CO-----ARS # 206

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997

From: Ken Freedman <n1qqv@cshore.com>

Subject: [8369] QRP Call Signs?

Message-ID: <2.2.32.19970109221928.0067a320@cshore.com>

Hi Gang,

I was talking to Al Brogdon at QST today and in the course of the

conversation he happened to mention that none of the WQxRP callsigns are in use at this time. Call areas 0 thru 9 are available if anyone is interested in a "QRP" call.

73, Ken

Ken Freedman

AKA: N1QQV/QRP VE, EC Madison CT

Living Proof That, "You don't have to be a blonde to be light headed!"

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997

From: Jeff Grudin <grudin@pacific.vdbs.com>

Subject: [8357] QRP RTTY

Message-ID: <32D55161.73DE@pacific.vdbs.com>

Bill,

I don't know what power level is QRP for RTTY, but it doesn't really matter if it is 10 or 100W. If a guy comes on 14060 when I'm in QSO at 5W, and doesn't first listen and call QRL?. Then I'm out of luck.

I was quite put off the other day by the guy's that would come from no where right over the top of an ongoing QSO.

There is plenty of room out there. What we need is some common courtesy.

--

73 de Jeff AC6KW

grudin@vdbs.com

-----QRP-L

#16

Private Practice : Companion Animals and Exotics

Norcal QRP #1292

Ocean Animal Clinic / Cat Clinic of Santa Cruz

Santa Cruz, California

QRP'ers do it with less energy (but lot's of enthusiasm)!

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997

From: kt3a@juno.com

Subject: [8382] QRP RTTY? CW vs PEP

Message-ID: <19970109.180046.5159.3.kt3a@juno.com>

QRP folk,

RTTY is sent by modulating a transmitter on HF in two ways. Either true FSK or AFSK. The receiving station at the other end will not notice much difference, by ear. True FSK will have a better S/N ratio and is really two CW signals being switched on and off at two different radio frequencies. AFSK is merely two audio tones modulating a SSB transmitter.

I think that is where the impression that RTTY can be 10 watts PEP. Remember though, that voice SSB has only about a 25% duty cycle, where RTTY is near or at 100%. The FCC classifies both FM voice and RTTY as FM emissions. RTTY is F1B and FM voice is F3E. The first letter is the modulation type.

Could it be that in reality, we are defining QRP as 5W PEP for CW? 5W CW is 5W PEP. It is the duty cycle that is different. Now here you can discuss differences.

Of course, the bandwidth and signal to noise ratios are important when it comes to actually receive and demodulate the signal.

The discussion on power measurement reminded me to post a comment. The FCC changed how power is measured. One reason the FCC changed transmitter power ratings from DC Input to RF output was for safety reasons. It is much safer to measure power with an inline wattmeter than it is to stick your hand in a power supply cage to measure 5000V!

72, Cameron, KT3A

QRP-L 7 <><

ARCI BOD Member

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997

From: Jerry Parker <jparker@fix.net>

Subject: [8317] QRP SSB/MOBILE

Message-ID: <2.2.32.19970109154041.006948c8@fix.net>

Following the thread on SSB I thought I might pass along my long time friend KI4RO's

recent experiences.

QRP SSB MOBILE

Well, I bet a lot of you are wondering why you don't hear me much on the repeater these days, especially since I have about an hour and fifteen minute commute in each direction. Well, the reason is simple, I've re-discovered HF mobile.

When I first got started in amateur radio in 1965 in southeastern Michigan we used 160 meter AM quite extensively. Everyone I knew was on the Top

Band;

not only from the house but also mobile!! We used to have transmitter hunts on 160 and the whole bit. Lotsa fun! Well I joined the Air Force and got stationed in Southern California about the same time that 2 meter FM started to take off and, other than a few ventures onto 10 meters with an HTX 100, pretty much forgot about HF.

Well early this year my Dad had to have a quadruple bypass. He survived and is doing very very well, thank you. I promised him that Bonnie and I would come for a visit once things settled down a bit at the office. That happened in May. My buddy, KB7ZZ, gave me a hamstick and an HF rig and told me to give HF mobile try on the way to Michigan(where my Dad lives). Bonnie and I had an absolute blast chatting with the fellows on ECARS and MIDCARS all the way up and back. I was hooked!!(or is that re-hooked HI HI)

About six months ago I purchased an MFJ 9420. For those that are not familiar with it, it is a 10 watt PEP SSB barebones transceiver. I also purchased a 20 meter hamstick and one of those triple magnet magmounts to hold it to the roof of the GEO. The biggest problem I had was hearing. I initially plugged it into the cigarette lighter, but found that the engine/alternator/turn signal noise was horrendous. There is no noise blanker in the little rig because, as I said earlier, it is a barebones rig. I decided to try to run it off of a GelCel and lo and behold most of the automobile racket disappeared.

I'm having a ball chasing DX from the car on the way to and from the office at Sallie Mae. I've bagged a number of European, Caribbean and South American stations with it and have had a goodly number of honest to goodness QSOs with stations all over the USA. Most stations are absolutely amazed at the fact that I'm only running 10 watts PEP and with the amount of punch that the audio has. There is a CW module available for the little guy, but I haven't gotten up enough nerve to try CW in the middle of rush hour!

If you haven't been on HF mobile lately or ever, give it a try. It is well worth the effort.

There is more information about the MFJ 9420 and Hamstick antennae available from the Ham Radio Page of our Web Site at <http://www.mnsinc.com/ki4ro>.

73,

John Smith, KI4RO

Check out John and Bonnie's web page, they have allot of neat links.

72,,,Jerry...WA6OWR...K
Jerry ... WA6OWR ... K

The NorCal Page

<http://www.fix.net/norcal.html>

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Joe Gervais <vole@primenet.com>
Subject: [8262] QRP SSB: What's it like?
Message-ID: <199701090024.RAA09116@primenet.com>

Howdy Folks,

(It's been getting down into the low 30s here in Phoenix.
May not have to leave town for FYBO after all. :-)

Ok you SSB veterans, help me out here. I think I'm going to try my first-ever non-CW operation during this weekend's QRP ARCI SSB Fireside Chat. Other than that I lack a fireplace, I seem to have all the requisite gear for this little party. :-)

So my question: What can I expect? I guess my older QRP+ only puts out a few watts at SSB, so I'm assuming that it'll be some rough going. Figure I'll stick to 15m/20m, since 40m has been wretchedly brutal even using CW.

How many folks will be out there? Will I be hunting for 1-2 stations even if the bands are open? Or are there usually marauding hoards of QRPers stalking the calling freqs?

Please cc: the List if you can. Figure I'm not the only one sitting on the fence here. Thanks!

Cheers de KC7NEV,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"And then you must cut down the mightiest tree in the forest with... A HERRING!"

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Larry Jones <ljones@flash.net>
Subject: [8295] QRPP & QQ
Message-ID: <199701090632.AAA00651@endeavor>

Greetings Gang...

I have yet to receive my copies of QRPP or QQ. What about the rest of you?

72/73 & God Bless...

dee-it dee-it

Larry Jones N50SG <><	NORTEX	QRP-ARCI	G-QRP	MI-QRP	CQC	NorCal
4028 Random Circle	NE-QRP	QRP-L	ARRL	NTMS	CSVHFS	
Garland Tx 75043-3250	EM12QU	96.62 W LONG	32.87 N LAT			

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Jerry Parker <jparker@fix.net>
Subject: [8291] Rainbow Bridge/Tuner
Message-ID: <2.2.32.19970109052713.006f2e78@fix.net>

Information on the Rainbow Bridge/Tuner has been posted on the NorCal Page.

<http://www.fix.net/norcal.html>

72,

Jerry...WA6OWR...K
Jerry ... WA6OWR ... K

The NorCal Page

<http://www.fix.net/norcal.html>

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: W5HNS@aol.com
Subject: [8260] Record LOW RST???
Message-ID: <970108182002_1190983733@emout12.mail.aol.com>

Did anyone happen to catch the signal report I received from KK7BD's FSFD 40 mtr log? a 229!!!! This must be a new record!!!! It must be true as I sent my log 300 times before he was able to copy. My hat's off to his perseverance.

If this had not been QRP and my usual difficulty beaming a signal west I might have been insulted. Almost as bad as getting a ZBM2!!!!

BTW DAN - you ain't in the 96 call book - your QSL card is gathering dust. Remember I am in Texas - dusty here - but not as bad as Arizona!!

This FSFD event is fun stuff.

73 Henry W5HNS

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Russ Carpenter <russ@natworld.com>
Subject: [8343] Results for the January 6 Spartan Sprint
Message-ID: <199701091846.LAA20209@cyberhighway.net>

The January 6 Spartan Sprint was another lesson in propagation. Once again, 80 meters saved the event.

As a whole, 40 meters was deader than a doornail. However, in the lower latitudes (as in Texas), 40 meters showed a little sparkle. In fact, K10J, operating from Texas, had a great 40 meter outcome. From those of us stuck in the higher latitudes, congratulations!

Mike, W3TS, continued his remarkable performance in the points per pound category. Take a look at his station description in the Soapbox. It's pretty amazing that a 80/40 meter rig, including power supply, headphones and key, weighs only 1.6 pounds. You can see a photograph of Mike's station in the ARS Web Site. We've got a new URL: www.natworld.com/ars.

ARS will send handsome certificates to the two top finishers in both categories. The contest manager is not eligible.

My sincere thanks to all who participated. Don't forget to email me your

results in future Sprints. You don't even need to send me a "log". Just email the number of contacts on each band and the total weight of your station. That's all there is to it.

Russ Carpenter, AA7QU, contest manager
russ@natworld.com

Results sorted by points per pound (with one point for each 40 meter QSO, and two points for each 80 meter QSO):

Call	Name	40m	80m	Total	Wt.	Points/ Pound
W3TS	Mike	4	20	24	1.6	15.00
AA7QU	Russ	0	18	18	2.7	6.67
W6ZH	Pete	1	10	11	3.7	2.97
N9ZZ	Bob	0	28	28	13	2.15
WD6FDD	Rich	2	4	6	3.4	1.76
K10J	Owen	25	12	37	22	1.68
WA8GHZ	Jack	7	0	7	8	0.88
VE3JC	John	4	8	12	15	0.80
K3QIO	Jim	0	12	12	22	0.55
KD6YIX	Mike	1	0	1	2.35	0.43
WD8RIF	Eric	0	16	16	40	0.40
KK5RO	Vernon	1	10	11	40	0.28
KC7NEV	Jack	2	0	2	15	0.13

Results sorted by points:

Call	Name	40m	80m	Total
K10J	Owen	25	12	37
N9ZZ	Bob	0	28	28
W3TS	Mike	4	20	24
AA7QU	Russ	0	18	18
WD8RIF	Eric	0	16	16
K3QIO	Jim	0	12	12
VE3JC	John	4	8	12
KK5RO	Vernon	1	10	11
W6ZH	Pete	1	10	11
WA8GHZ	Jack	7	0	7
WD6FDD	Rich	2	4	6
KC7NEV	Jack	2	0	2
KD6YIX	Mike	1	0	1

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [8335] RTTY QRP
Message-ID: <199701091811.SAA05610@chuck.dallas.sgi.com>

Gang,

I've seen this twice today in postings, 10W PEP RTTY.
I don't think that it is QRP. Am I wrong?

The only mode for PEP at 10W to be QRP, as defined by the QRP ARCI, is SSB. RTTY is considered to be a digital mode, thus like CW, AM, and FM 5W output is considered the delimiting QRP level.

I think of RTTY as a two frequency CW signal alternating in time with some fixed offset between the two frequencies.

"The ARRL Operating Manual", Fourth Edition, page 3-16. QRP as defined by the ARRL is 10 watts input or 5 watts output independent of mode of operation. Note: this is a carryover from the days when class A amps were assumed in the ideal case to be 50% efficient.

So if you send in a log for an ARRL contest for 10W PEP RTTY you will automatically be removed from the QRP category. Just be aware of the definitions. Same for SSB contests for the ARRL, QRP is 5W PEP!!!

Noone has a definitive universal reproducible technique as to how and under what conditions your voice will be producing 5W PEP SSB without lab equipment above and beyond the budget of the average radio amateur. This with your rig and your microphone and Again, a subjective observation on my part.

I don't want to stir up or muddy the waters on this one. Just a point of reference that is probably important to a large number of individuals in this group. Any group can run any activity with predefined set(s) of rules and as long as everybody plays fairly

within the guidelines, whether they qualify or not by other group definitions, and are within regulations apropos to the license of the individual participating. Geez, legal wording has struck again.

dit dit

SIG

Chuck Adams K5FO adams@sgi.com

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997

From: Ken Newman N2CQ <103464.1355@CompuServe.COM>

Subject: [8286] RTTY Roundup - QRP

Message-ID: <970109044015_103464.1355_IHI108-2@CompuServe.COM>

For all those who thought RTTY Roundup was QRM,
you can really work RTTY at QRP!!

ARRL RTTY Roundup

Call used: N2CQ

Location: NJ

Entry Class: Single Op, Single Band

Band	QSOs	Pts	QTH	DX
80	0	0	0	0
40	0	0	0	0
20	26	26	12	2
15	0	0	0	0
10	0	0	0	0

Total 26 26 12* 2*

* - Counted only once (not once per band)

Score: 364

Time: 1.5 hrs

Power Output: 10 W. PEP

Club Participation:

Equipment: Knwd TS-850Sat (at 10 W PEP) Antenna: Mosley MP33 up 40'

Terminal: MFJ 1278 S/W: RTTY by WF1B

Ken Newman

81 Holly Drive

Woodbury, NJ 08096

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: KR4GL@aol.com
Subject: [8373] School Club Call Sign Lookup
Message-ID: <970109172536_1656689823@emout02.mail.aol.com>

Thank you to everyone who suggested ways to keep up with the new club licenses on the lookup services.

I've been looking at the FCC database periodically and just noticed that our Farmwell Station Middle School has been licensed as KF40GK.

Now, when I upgrade to EXTRA I can apply for something spiffy for them, like N4FWM, or the like.

Now we'll see if Farmwell Station M. S. can make a QSO with MIR, or something just as impressive.

73 and 72 de KR4GL
John Foote
One of the Northern VA John Foote's

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Russ Carpenter <russ@natworld.com>
Subject: [8342] Soapbox for the January 6 Spartan Sprint (Long)
Message-ID: <199701091846.LAA20198@cyberhighway.net>

Here is the soapbox for the January 6 Spartan Sprint. Thanks to all who participated and submitted logs.

Russ Carpenter, AA7QU, contest manager

Subject: Soapbox for the January 6 Spartan Sprint (Long)
Sent: 1/9/97 9:26 AM

Soapbox:

Eighty meters was again the band with the signals. At my location it was pretty noisy and had pretty severe fading. Nevertheless, I did better this month than last and had a good time. I like these events!

W. Eric McFadden WD8RIF Athens OH
wmcfadde@ace.cs.ohiou.edu
<http://ouvaxa.cats.ohiou.edu/~mcfadden>

Hello Russ-just a note on the sprint. I was on for the last 45 min, and didn't hear a single station!! I tried CQ on both 40 & 80 with no luck. Funny propagation-2 hrs later the band was alive, and last night (Tues) I worked some guys in Fla. & NM. Oh well,next time!
Dan N7CQR

Well I heard lots of static, and some big foreign SSB signals, but only one Spartan Sprint Op. We made a quick exchange, then back under two layers of QRM. My first Spartan Sprint! My plans are to double my number of contacts each events. Shouldn't be too difficult at first.

My Log: Worked K10J fm TX at 0340z, 7Jan97 on 7.041 mHz
I sent RST 449
He returned RST 559

My Rig: NorCal 40A at 2.0 watts into a dipole up 40 ft.
Total Station Weight is 2.35 pounds.

See you later,

--

72/73	KD6YIX	ARRL	ARS #40
Mike Larson			QRP-L #533
mlarson@fix.net	*** **	*** **	NORCAL #1655

Number of QSOs:

80 meter...5
40 meter...1

weight of station...about 40 pounds ;-)

Not many contacts but a lot of fun. Maybe next time SSB won't wipe out 40 meter so bad.

--

KK5RO

Vernon A. Hatley

Great Fun and a learning experience; 5 pound 7 AH GelCel is OUTTAHERE for next Sprint:

Rig: Emtech NW40 25.9 oz

Whiterook Keyer, Knee Pad, Walkman Phones, Cables 13.3 OZ

7.0 Amp Hour Battery 88.5 oz (5 POUNDS! It's outta here

next time!!!!)

Comments:

My first real contest attempt. Great fun, and thanks to all.

--

WA8GHZ /5 / === === o === o === o o === === o
Jack /Houston / "I know the guy who built my radio."

Wow. Last Monday's Spartan Sprint would've been a non-event for me if it hadn't been for that good ol' groundwave. Only worked two stations: Fellow ScQRPions Floyd (NQ7X) and Mike (NQ7K). Sure glad they were out and about! Other than that, lots of CQ's, lots of QRN in response. :-(Gotta get a cloud warmer for 80m put up, I guess.

Good news is that I got a Sierra kit from ScQRPion Brian (W5VB0) at Saturday's meeting, so I'll have a *true* all-band backpacking rig ready to go in a few weeks. Wahoo!

Official Spartan Report:

2 Q's, 15+ lbs. Ouch. :-)

Cheers de KC7NEV,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

I MANAGED TO SNEAK AWAY FOR A FEW MINUTES MONDAY NIGHT TO PARTICIPATE IN THE SPARTAN SPRINT FOR THE FIRST TIME. HAD A GREAT TIME IN SPITE OF LESS THAN STELLAR BAND CONDITIONS. EQUIPMENT USED: QRP+, WHITEROOK PADDLE, WALKMAN EARBUD EARPHONES, AND 6Ah BATTERY PACK. (ANT. IS 40M/80M TRAP DIPOLE AT ABT 20').

VE3JC - JOHN CUMMING
192 WELLINGTON ST. DELAWARE, ON CANADA, N0L 1E0
Shawnee, OK

Howdy from Texas!
Well the sprint is a done deal. I had a blast. I put my 38lb yaesu on a diet and now it doesn't even look like it's old self. In fact it looks just like a Ten Tec Triton IV. First time out for this old rig. Looks like a keeper. Good ears and it only weighs 12lbs! Here is the log. Thanks to ARS for the contest.....
CU--OJ--K10J
QRP-L #732

Hi Russ,

Good signal from way out there in OR. Best DX was you and W6ZH. Only operated the last 25 minutes of the event. Rig set up for FSFD so no lightweight tonite.

6 Q's, all on 80M weight = 22 pounds.

CU Wednesday on FSFD from Delaware, Jim K3QIO

This is a great activity...keep it up

Russ, the results of my efforts at the Spartan Sprint on 1/7/97

Band.....80 meters
Frequency...3.560
Rig.....Argonaut 515 6 lbs.
Antenna.....450' wire loop 5lbs.
Power out.....3 watts

Oper. time.....2 hours
Key.....MFJ 2lbs.
TOTAL.....13lbs.

Comments:

The 80 meter band was in pretty poor shape but managed to squeeze out 14 contacts. I tried 40 meters but it was completely dead for me here in Arkansas.

I'm not sure how to add up the score on this one: 11 s/p/c 14 qsos all 80 meters.

72

Bob Schill N9ZZ

This is all I could do:

Only 4 (hang my head in shame) contacts, two on 40 two on 80.
Station weight is 3.4 lbs.

Thanks for the contact last night. Saw the call and said "think I've worked this guy before" knew I seen it somewhere HI HI.
Both 40 and 80 were very bad here in So. Ca. lots of noise but still lots of fun...Where is that aspirin?????
72's Rich

--

Rich Wilkerson WD6FDD, Santee, Ca

Things a bit different this time. About 20:00 PST (04:00Z, 7 Jan) we lost all power here due to a wind storm - ergo I was on emergency power for real! Plus I had my 40 meter beam lowered (thanks goodness) and after about 04:00 Z, had to use my 80 vertical on both 40 & 80 - and found that the St. Louis Tuner works like a champ!

In all the "excitement" I forgot to log the frequency of my first QSO -
so I don't know whether I worked Russ, AA7QU on 40 or 80! Let's assume 40,
OK? (unless Russ' log shows 80!)

Equipment: NorCal Sierra with built-in Curtis keyer & SWR bridge,

Yuasa NP2-12 battery, key paddle, earphones, and all cables:
weight (including both band modules for the Sierra) =
3 lbs, 11 ozs (measured on my postal scale).
Measured output: 2.1 watts on both bands (WH-1)
Used a St. Louis Tuner, but weight of that is not included.
Antenna: 40 meters - 2 el beam at roof lever for AA7QU and W6SU
80 meters - 45' roof-mounted vertical with 8 radials.

Conditions on 80 were much better than expected - let's keep both
bands
for the sprints - and there is always next month !!

de Pete, W6ZH

P.S. we got power back about 01:30 PST this morning !!

Hello Russ-just a note on the sprint. I was on for the last 45 min, and
didn't hear a single station!! I tried CQ on both 40 & 80 with no luck.
Funny propagation-2 hrs later the band was alive, and last night (Tues) I
worked some guys in Fla. & NM. Oh well, next time!
Dan N7CQR

Russ,
>
> Good to work you in the Sprint. I want to vote for the earlier time
> period, from 9 to 11 PM EST. I have a hard time getting up at 5 AM when
> I stay up till almost 12 MIDNIGHT. Seems I can't fall asleep with out a
> little wind down after the sprint. But at about 10PM I have trouble
> staying awake, that is my normal bedtime during the week. Oh well, I'll
> get over it...
>
> Made 10 QSOs on 80m and 4 on 40M for a total score of 24 points.
>
> The rigs are the same as last time, 80-20 and 40-20 at 8 oz each and
> keyer, earbuds and 10x AAA NiCad battery pack at 5 oz for a total
> station weight of 21 oz.
>
> This time I worked one PQ station, WA8GHZ/PQ.

72 es 73 es TNX,
> Mike W3TS
>

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Joe Gervais <vole@primenet.com>
Subject: [8277] Spartan Jog (Tweren't a Sprint!)
Message-ID: <199701090255.TAA00672@primenet.com>

Wow. Last Monday's Spartan Sprint would've been a non-event for me if it hadn't been for that good ol' groundwave. Only worked two stations: Fellow ScQRPions Floyd (NQ7X) and Mike (NQ7K). Sure glad they were out and about! Other than that, lots of CQ's, lots of QRN in response. :-(Gotta get a cloud warmer for 80m put up, I guess.

Good news is that I got a Sierra kit from ScQRPion Brian (W5VB0) at Saturday's meeting, so I'll have a *true* all-band backpacking rig ready to go in a few weeks. Wahoo!

Official Spartan Report:

2 Q's, 15+ lbs. Ouch. :-)

Cheers de KC7NEV,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Owen Quarles <k1oj@swbell.net>
Subject: [8276] SPARTAN SPRINT
Message-ID: <32D45161.3B1D@swbell.net>

Just wondering why there has not been more logs posted for the January spartan sprint. I have seen only three or four. Que paso?

CU---K10J---OJ

HOUSTON, TX

QRP-L #732

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: VE3JC John <jbcumming@wwdc.com>
Subject: [8273] SPARTAN SPRINT - FIRST TIME
Message-ID: <32D457AC.4E46@wwdc.com>

I MANAGED TO SNEAK AWAY FOR A FEW MINUTES MONDAY NIGHT TO PARTICIPATE IN THE

SPARTAN

SPRINT FOR THE FIRST TIME. HAD A GREAT TIME IN SPITE OF LESS THAN STELLAR BAND CONDITIONS. EQUIPMENT USED: QRP+, WHITEROOK PADDLE, WALKMAN EARBUD EARPHONES, AND 6Ah

BATTERY PACK. (ANT. IS 40M/80M TRAP DIPOLE AT ABT 20').

40	CW	97.01.07	0233	K10J	559 ON 5W	559 TX	5W	
40	CW	97.01.07	0236	AC5AM	339 ON 5W	569 LA	1W	BOB
40	CW	97.01.07	0239	KA5T	539 ON 5W	449 TX	5W	LARRY
40	CW	97.01.07	0242	W4RAZ	579 ON 5W	579 FL	100W	DONN
80	CW	97.01.07	0352	W4DON	569 ON 5W	579 NC	5W	DON
80	CW	97.01.07	0358	N9ZZ	579 ON 5W	559 AR	3W	BOB
80	CW	97.01.07	0407	W3TS	329 ON 5W	329 PA	1W	
80	CW	97.01.07	0413	K3QIO	449 ON 5W	339 DEL	5W	

12 POINTS, 7 SPC'S, 8Qs, 4 Qs ON 40 M, 4Qs ON 80 M TOTAL WEIGHT: 10.4 lbs

VE3JC - JOHN CUMMING

192 WELLINGTON ST. DELAWARE, ON CANADA, N0L 1E0

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: William McFadden <wmcfadde@oucsace.cs.ohiou.edu>
Subject: [8305] Spartan Sprint Log
Message-ID: <199701091308.IAA04655@oucsace.cs.ohiou.edu>

Someone asked where the logs were. I'd already sent mine to ARS, but neglected to post it to QRP-L.

Here it is:

Adventure Radio Society Spartan Sprint
6 January 1997 (local time)

W. Eric McFadden WD8RIF
12600 Adeline Circle
Athens OH 45701
wmcfadde@ace.cs.ohiou.edu

ARS Number 58

All QSOs 7 Jan 97 GMT

Time Freq Callsign RST Sent RST Rcvd QTH PO

```

-----
0250 3555 N4OLN          579      559      GA  5W
0254 3561 W3TS          569      579      PA  1W
0316 3559 WA1QVM        569      569      MA  5W
0318 3559 K4NK          579      559      SC  4W
0324 3559 AA7QU         429      559      OR  1W
0327 3559 N9ZZ          589      579      AR  3W
0328 3559 WA1UPB        589      579      NC  5W
0332 3356 W4DON         569      579      NC  5W

```

Equipment:

```

ICOM IC-735 at 5w output      11 lbs
AEA AT-3000 Antenna Tuner
132' ladder-line fed dipole @ 30'
CMOS Super Keyer II          1 lb
Bencher Iambic paddle
Astron RS-35M power supply    20 lb?

```

Total weight? Approx 40 lbs

Soapbox:

Eighty meters was again the band with the signals. At my location it was pretty noisy and had pretty severe fading. Nevertheless, I did better this month than last and had a good time. I like these events!

--

W. Eric McFadden WD8RIF Athens OH
 wmcfadde@ace.cs.ohiou.edu
<http://ouvaxa.cats.ohiou.edu/~mcfadden>

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
 From: SYDV00A@prodigy.com (FLOYD SMITHBERG)
 Subject: [8292] SS Pins Matched Set
 Message-ID: <199701090355.WAA14306@mime4.prodigy.com>

Got my second SS lapel pin in the snail mail today....now have a matched set for cw & ssb 96 SS contest. First attempt at working over 100Qs with QRP...new logging program made reporting a snap. Probably why I never tried before...too much paper work. A side benefit was a slightly noticeable improvement in copying cw at higher speeds. Try it, it helps.
 72, Floyd NQ7X Phoenix ScQRPion dm33uq

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Ed Tanton <n4xy@avana.net>
Subject: [8313] Supplies are all gone!
Message-ID: <3.0.32.19970109100113.00934100@tiger.avana.net>

>Date: Thu, 09 Jan 1997 09:09:14 -0800
>From: Allen Bond <mgs@avana.net>
>To: n4xy@avana.net
>Subject: Supplies are all gone!
>
>Dear ED,
>
>WOW!!
>
>All 1,700 pounds of those supplies are gone as of today. To say that the
>response was overwhelming is a tremendous understatement. Please pass
>along to all the guys at QRP-L how much we appreciate the sales. The
>proceeds will allow our church school's computer lab to protect all
>equipment with UPS units. (We have had some expensive surge-related
>losses in the last year.)
>
>I will let you know if we have any other goodies of comparable interest
>for sale in the future.
>
>Best 73,
>
>Allen, WB4GNT
>
>
72/73

Ed Tanton N4XY EMAIL: n4xy@avana.net TEL: (770)579-3933 V/MBX/FAX
189 Pioneer Trail
Marietta, GA 30068-3466

QRP-ARCI#7663 G-QRP#6779 OK-QRP#172 QRP-L#758 AdvRC#140
NORCAL#1779 NCDXF SEDXC

Life Member: ARRL AMSAT IDRA INDEXA QCWA
URL: Coming Sooner or Later

"Think you can, think you can't: either way you're right!" Henry Ford

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997

From: Randy Kaufman <krandy@hubcap.clemson.edu>
Subject: [8315] Supplies gone ... not quite!
Message-ID: <199701091517.KAA14074@hubcap.clemson.edu>

Well, I still have a few boxes of these great power supplies.

Box of 12, shipped, for \$40. (Sorry, can't do it quite as cheap.)

If interested, send email.

73 Randy

```
+-----+
Randy Kaufman      WD4LUJ      QRP-L #776
krandy@hubcap.clemson.edu
"... playin' jester to the clown, ..."
+-----+
```

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: "John A. Evans - N3Q00" <jae@cos.cst.titan.com>
Subject: [8346] Ten-Tec and QRP
Message-ID: <199701091928.0AA39324@nss2.CC.Lehigh.EDU>

Greetings,

Tongue in cheek mode - but it is there in writing !!!

Watch out - the sales force at Ten-Tec is subliminally attacking QRP.=20
Check out the following copy on their web page for their dummy load kit =
!!

>Yes, a dummy load is the least exciting of all radio tools. But there=20
>are those times when it's the right tool for the job. Your complex=20
>transceiver suddenly acts like a QRP rig; is it the rig, the tuner or =
the

^^

This is a BAD thing ?????? QRP transceivers can't be complex ??

>antenna? Loading the rig directly into the 1203 Dummy load will report=20
>the basic health of your transmitter section. Save \$\$ by building the=20
>easy kit yourself. With many common sense uses, this is the boring=20
>accessory you'll appreciate whenever you start to wonder what's going=20

>on with ANY transmitter setup. Good for HF and VHF.

End of friendly ribbing !!

=20

72, n3qoo

john

John A. Evans Chief System Administrator
Office: (719) 528-1800 x164 Titan Client/Server Technologies
Fax: (719) 528-1275 1115 Elkton Dr, Suite 200
email: jaevans@cos.cst.titan.com Colorado Springs, CO 80907-3535

Norcal #262 QRP-L #219 QRP-ARCI #8303 NE-QRP #213 CQC #045
CQrp #15 NJ-QRP #50 AK-QRP

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: owens@stout.atd.ucar.edu (Chip Owens)
Subject: [8321] Ten-Tec new QRP rigs
Message-ID: <199701091606.JAA28655@atd.atd.ucar.EDU>

Hello,

I've been off the list for a few months and just got back on. I heard that Ten-Tec has a new QRP rig in the offing. Has anyone seen one of these yet? I'm wondering if it uses the NE602 as so many other rigs do, or if it represents something newer in design. The price sounds about right. I sure would like to get the details on these new offerings from Ten-Tec. Does anyone have one yet?

Chip Owens, NW00, Boulder, Colorado

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Jerry Parker <jparker@fix.net>
Subject: [8367] The 38 Special and the NorCal Page
Message-ID: <2.2.32.19970109220634.006f7850@fix.net>

The latest on the "38 Special" and a picture of Preston Douglas's "38 Special" may be found on the NorCal Page.

<http://www.fix.net/norcal.html>

72,,,Jerry...WA6OWR...K

Jerry ... WA6OWR ... K

The NorCal Page

<http://www.fix.net/norcal.html>

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: N5EM@aol.com
Subject: [8354] TLAs
Message-ID: <970109151604_1656669574@emout13.mail.aol.com>

Boy, ever count the number of TLAs used on this list? :-)

Ed, N5EM

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Mel Evans <101366.3072@compuserve.com>
Subject: [8379] UTC the easy way
Message-ID: <199701091753_MC2-E6B-8C00@compuserve.com>

Hi gang.

Visit local glitter 'n gift store. Look for JUMBO LCD car/auto clocks or similar. Self adhesive backing. About 1" x 2.25". Buy one for each time zone. About 1.99 ukp each. Mount on board, use dry transfer letters to label "UTC", "PST", "Local" as needed.

Set each one to correct time for zone. BINGO! no more calculating or probs in conversion. Replace batteries as needed.

Finishing touch - -fit red light and "ON AIR" sign outside shack.....just kidding guys. Seriously chaps, as Laura suggests, you can find cheapo clocks galore nowadays from our far eastern chums. Just buy enough to do the job.

72 and 73 de Mel

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: "William R. Colbert" <v31xe@dzn.com>
Subject: [8358] UTC, SWL'ers and real operators?
Message-ID: <32D57CB4.27A8@dzn.com>

I felt a bit put down by the statement "if SWL'ers can use UTC we real operators can too". I started as a SW listener about 45 years ago, worked as a professional SW listener, in addition to radio operating, and continue to listen to SW both utility and broadcast stations. (another hobby entirely). Most SWL'ers I know and have worked with are as serious and in many cases as qualified or more than a lot of "real operators". Many SWL'ers are on this list, and I see many of the QRP and boatanchor crowd on the WUN list. We are all "real operators", some licensed, some not, but all radio operators.

--

72/73, Ray Colbert, W5XE, SOWP 1064M
(also af852@rgfn.epcc.edu)
El Paso, Texas

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Frank G3YCC <g3ycc@enterprise.net>
Subject: [8349] Web site
Message-ID: <852836197.915996.0@gqrpclub.demon.co.uk>

Hi all.

Sorry my usual web site has not been updated yet - there is a lot to do to make the changes. Every file has to be altered and there are lots of them! However, they are all now finished and things should be back to normal in the next few days. The Geocities site is up and running and has all the files from SM0VPO on it. If you haven't yet seen them, I would strongly recommend them to you. My main site will have several new files soon. Please also note my new email address (g3ycc@gqrpclub.demon.co.uk) and remember, if you have anything to share with other QRPers, do let me know and will add it to my web sites - views on rigs, kits, antennas, etc.

-----72/3 de Frank G3YCC -----
GQRP CLUB 042
QRP WEB SITES: <http://www.gqrpclub.demon.co.uk>
<http://www.geocities.com/CapeCanaveral/5179>

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [8326] Where's my QQ???
Message-ID: <Pine.3.89.9701091132.X2669-0100000@w3eax.umd.edu>

Everyone's been quoting articles since MONDAY!!!

My friend in D.C. got his Monday, and we only live 15 miles apart!

Hopefully, it will be there when I get home today.

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 138 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** 145.490- 147.225+ PL 156.7 *

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Jim Hydzyk <congress@magpage.com>
Subject: [8332] WYOMING and RHODE ISLAND set for FSFD
Message-ID: <199701091702.MAA06626@alaska.magpage.com>

Can't Wait!

KA9HA0-Randy will activate RI on Saturday, Feb. 08 (TKS to W1FMR call)

N7MR-Mike and KB0WSU-Raul will do Wyoming (along with VA) on Saturday Feb. 15
This will be a travel/portable operation.

My thanks to all the behind the scenes folks who have worked hard to
provide fun for the rest of us. It couldn't be done without your help.

Jim K3QIO Delaware

Only KS, ND, TN, and WV to go. Who will be next?

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [8316] RE: 300 OHM ANT
Message-ID: <199701091529.PAA04946@chuck.dallas.sgi.com>

Bill et.al.,

You may want to look in the literature for the title "Modified Windom" or "Unbalanced Dipole". And I saw a posting this week which had a W3-call associated with the antenna.

My version consists of 300 ohm ladder line, 30M on the 'hot' side and 10M on the 'ground' side, although I don't use a ground at all. It tunes well with a MFJ-941C tuner. The 300 ohm ladder line is about 5M in length from the tuner on the desk to the feed point.

This antenna has done very well on 40M, 30M, and 20M. Next band to try is 17M, which it loads well. All this in spite of the fact that is about 1/3 of the way from the ground (4M) and the pecan trees surrounding the yard are about 10-15M in height.

A side note. The two caps in the MFJ remain in the same position on all the bands and all I do is switch the inductance to different values. I haven't figured that out yet or done the calculations. The positions are 3.1 and 1.0 for loading and antenna respectively.

My order of preference for antennas, based on experiences, are:

1. 40M endfed longwire using 450 ohm ladder line with ground system of numerous random radials
Tuned using MFJ-941C tuner
2. 80M endfed longwire "
Tuned using MFJ-941C tuner
3. Butternut HV-6V ground-mounted vertical with ground system of numerous random radials varying from 10M to 30M in length
4. The above modified Windom.
Tuned using MFJ-941C tuner
5. Any wire is better than no wire. :-)
Tuned using MFJ-941C tuner

FYI

SIG

Chuck Adams K5FO adams@sgi.com

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [8325] RE: 300 OHM ANT
Message-ID: <Pine.SOL.3.94.970109113331.6661A-100000@utkux4.utcc.utk.edu>

Lots of antennas that call themselves Windoms ain't. Technically, a Windom, named after its developer way back in the 20s, uses a single wire 600 ohm feedline.

Better to call the whole lot "off-center-fed" antennas. Here are a few facts gleaned from modeling these antennas with and without parallel feedline (and I mean a physical feedline that will show whatever radiation may appear off the lines--those of you with a version of NEC having transmission line capabilities should remember that those feedlines are mathematical models and are not part of the radiation calculations).

1. The resonant length of the antenna varies with the amount off-center of the feedpoint.
2. The feedpoint impedance selected (100 ohms, 300 ohms, etc.) will vary with the height of the antenna above ground.
3. Even resonant lengths do not come out any near the length of the fundamental.
4. The feedpoint impedance for any given length and height above ground increases slowly from the center-fed value and then more rapidly. The so-called 300-ohm point is on a steep part of the curve, making its location more a matter of luck than skill.
5. The feedline radiates a bit (not a lot), and makes little difference to the patterns for all bands. The little bit of feedline radiation, however, makes the feedline part of the antenna, so all of the formulas for a 300 ohm point are pretty much negated.
6. If you want to roll your own, keep it simple, like the K5FO version. Use about 1/2 wavelength ("about" means do not be fussy) and feed the wire off center wherever the feedline is most convenient to the shack entry point--just do not get more than about 50% past center or thereabouts. Run to tuner (I prefer a balanced inductively coupled tuner for this kind of application, but for QRP, little harm will come from Tees, etc.). Operate. 300 ohm or 450 ohm line is fine, since resonance is no longer a concern. Save the magic baluns, isolators, and other coax gimmicks for another day. They only introduce losses. (Yes, you might need one at the shack window to transition to coax for your QRO operations.)
7. For all band operation, expect patterns very close to those from a center-fed wire of the same length, except on bands where the ratio of the wires each side of the feedpoint approaches certain values that change the nature of the antenna. Overall, no better, no worse. (Same applies to an

end-fed Zepp of the same length.)

8. If you do not know what those patterns are likely to look like, whether using center feed, off-center feed, or end feed, come to FIDM for a quick overview. Or stay tuned for the next year to the series in Low Down for a more detailed look at them as I develop some compendia of patterns for the backyard antenna builder's notebook.

9. Then why do we see so much written on the OCF? Because everyone who makes on work amid specific quantities of backyard/neighborhood clutter and area terrain features tends to think they have the universal formulas, of which there are not any, if +/- 20% is not good enough for you--otherwise, everyone's numbers work at that loose figure.

OCF is just one more way to feed a wire. Do not strain to make an OCF, because there is no magic in it. However, if the OCF is natural for your layout, then go for it, since it will work as well as center and end fed systems.

I understand that my studies fly in the face of certain advertised claims that appear from various sources from time to time. And if I wear certain shoes, I can jump as high as Michael Jordan.

-73-

LB, W4RNL

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Alan Kaul <kaul@netcom.com>
Subject: [8365] Re: 38 Special abbreviation
Message-ID: <Pine.3.89.9701091359.A16368-0100000@netcom21>

I believe the name for the 30-special ought to be brief -- just to make it easier on CW. I understand that Doug wants to plug the Norcal Club (I'm loyal member 315) so he wants NC38S, and I understand that Marcus wants to make it sound like real firepower -- but with .38 SPC, that's a lot of dits-and-dahs, too many for me. In my CW QSO's I'll be sending ''rig hr 38s.'' Which is not to say you shouldn't identify your rig the way you want. But remember the axiom behind the list: qrp = doing more with less!

Best 73/72, anger, outrage not intended!

de alan

[<Alan Kaul, W6RCL>] kaul@netcom.com

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [8322] Re: 38 Special Report
Message-ID: <199701091622.QAA05287@chuck.dallas.sgi.com>

Preston et.al.,

Well I am anxiously awaiting along with 500 other people and congratulations all the way around to the cast of the NorCal 38 Special project.

During TMPS (the Thirty Meter Propagation Study) we suggested 10.116MHz as the 'watering hole' or gathering place to look for QRP activity. Two reasons for this. 1. There is a high powered commercial RTTY station at the regular QRP calling frequency of 10.106MHz. 2. The G-QRP Club in EU suggests 10.116MHz as the QRP gathering frequency.

When I get my 38 Special (can we abbreviate 0.38S? 38-S? 38S?) I'll immediately get on 10.116MHz (and I don't care what time of the day or night it is) and try to work another NorCal 38 Special. See you there.

Since, from what I've gotten from Doug and postings, there are additional locations on the circuit board to add additional 12MHz crystals to improve the IF filtering. I placed an order just before Christmas with Dan's Small Parts (see the home page at <http://www.fix.net/jparker/dans.html>). One of the things that Dan has are sets of matched crystals for the following frequencies, listed here FYI:

1.8432, 3.6864, 4.0000, 4.032, 6.176, 7.3728, 8.192,
9.600, 10.000, 12.000, and 14.31818 MHz

at prices for 4/\$4 or 6/\$6. I hope that I got the freqs down without any typos. I double checked but check the home page anyway.

I ordered a set of 6 12.00MHz crystals in anticipation of the 38S. I put them in a test circuit and got the following frequency measurements:

11.995061MHz
11.995041
11.995082
11.995234
11.995128
11.995134

Newbies: just because it says 12.000MHz on the case doesn't mean that the crystal will resonant there in your osc. There is a set of special conditions that must be met to get that exact frequency. Different circuits will vary the frequency. The statement "mileage may vary" certainly applies here.

So five are within 100Hz of each other and depending up the frequency I get with the NC38S (YAB - yet another abbreviation) crystal, should be able to immediately get a three crystal filter that may be somewhat narrower than the stock filter. I don't know if Ori laid out the board to allow 3 or 4 crystals. Preston might tell us. I'm sure that Jerry will have us a photo soon of the finished product on the NorCal web page.

So for the next few months expect the postings on qrp-l to really take off on this transceiver. :-) It'll be fun. I'm sure that more than 1/3 of this group is getting at least one. :-)

FYI
SIG
Chuck Adams K5FO adams@sgi.com

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: PDouglas12@aol.com
Subject: [8348] Re: 38 Special Special Report
Message-ID: <970109143321_1325328547@emout20.mail.aol.com>

Chuck and the Gang,
In a message dated 97-01-09 11:19:54 EST, you write:

<< I don't know if Ori laid out the board to allow 3 or 4 crystals.
Preston might tell us. >>

No, there is room for 1 more crystal. And Chuck, I did the same thing you did. I have a little packet of Dan's 12 MHz xtals. But Ori is quite adamant (I had the pleasure of a couple of phone calls with him) that those who have less than serious skills should think twice before they try that mod. If not aligned right, instead of improving the radio (which tests out HOT, guys) a

klutz is likely to degrade the receiver. So, Chuck, for now and until I am able to do it right, I will eschew the IF filter mod.

72,

Preston

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Ken Lopez <kjlopez@earthlink.net>
Subject: [8287] Re: Allen Bond Power Supplies
Message-ID: <32D4492B.2A0B@earthlink.net>

What is the info for the Allen Bond Supplies? I would like to purchase some.

Ken, N6TZV

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Steve N0TU <N0TU@webaccess.net>
Subject: [8289] Re: Allen Bond Power Supplies
Message-ID: <32D474A8.6330@webaccess.net>

Would any of you be interested in splitting up a case of the these power supplies??.

Jerry Henshaw wrote:

>
> Hi Gang,
>
> Excuse the bandwidth, but I keep getting email requests to
> re-post Allen Bond's email address for the 13.5 V 800ma
> power supplies. He sells the by the case only (12 units) for less
> than \$3.00 per unit. My case cost \$35.00 shipped to my door.
>
> Allen's email address is:
>
> mgs@avana.net
>
> 73's
>
> Jerry Henshaw
> KR5L / QRP

> jerryh@webzone.net
>
> ARCI 9165, QRP-L 847, NORCAL 1999
> 49er, ARK 20, Wilderness Sierra, (Soon 38 Special)

I know all the extra shipping around would 2x the final price but it's still a good value. Steve

--
73/72's_____D_E__N_O_T_U_____
portable/solar powered QRP-----QRP-L # 911
49er/HW8/ExplorerII/Zepp in attic @ CO SPGS,CO-----ARS # 206

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
Subject: [8338] Re: Conjugate Matching

>From: kd1jv@juno.com (Steven Weber)
>Last night I found a nice description of conjugate and Zo matching in
>the 1986 Handbook. Very clearly written and understandable. Cleared up
>some of my misunderstandings, which I repeated on the list a few days
>ago.

Hi Steve, as I understand it, the ARRL believes this information is incorrect and is removing it from the handbook. That's what triggered this conjugate matching thread along with my wailing and knashing of teeth. :-) I agree with you. Whoever wrote the explanations contained in the 1986 Handbook understood the theorem and more importantly, IMO, understood the boundary conditions and limitations of the theorem. So does the author of "Reflections".

Measurement can prove that an antenna tuner absolutely does achieve very close to a Z0-match and, except for losses, re-reflects all the reflected power back toward the antenna. According to the theorem, a Z0-match guarantees a conjugate match.

As I understand it, the latest majority thinking at the ARRL is: if the transmitter is more than 50% efficient, a conjugate match is not possible. Most of our class-C and class-AB amplifiers are much more efficient than 50% so, according to the latest thinking at the ARRL (if my understanding is correct), a conjugate match is not possible with the average ham rig.

I would love to be wrong about what I have gathered is the ARRL majority opinion. Please, somebody correct me if I'm wrong.

73, Cecil, W6RCA, OOTC

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: kd1jv@juno.com (Steven Weber)
Subject: [8370] Re: Conjugate Matching
Message-ID: <19970109.172623.7479.1.KD1JV@juno.com>

>Hi Steve, as I understand it, the ARRL believes this information is
>incorrect and is removing it from the handbook. That's what triggered
>this conjugate matching thread along with my wailing and knashing
>of teeth. :-) I agree with you. Whoever wrote the explanations
>contained in the 1986 Handbook understood the theorem and more
>importantly, IMO, understood the boundary conditions and
>limitations of the theorem. So does the author of "Reflections".

Hi Cecil.

Ahhh yes, I seem to remember that. Indeed, the 96 handbbok had narry a word, in fact very little to say on transmission lines in general, maybe so you have to go buy the antenna book. The 86 book on the other hand was very informative.

>Measurement can prove that an antenna tuner absolutely does achieve
>very close to a Z0-match and, except for losses, re-reflects all the
>reflected power back toward the antenna. According to the theorem, a
>Z0-match guarantees a conjugate match.

I think this is where you and Jeff are having the argument. I guess you could say that a Zo match is a special condition of the conjugate match, but from what I understood from the handbook, a conjugate match only happens when you put a tuner in line. You either have a Zo match or you don't. All other matches are conjugate (or strike anywhere) That's what I got from the description.

I guess the way to say it is this, when a conjugate match is zero (no SWR correction) we have a Zo match. That definition just might make everyone happy.

I'll agree 100% that a tuner is capable of restoring the power transfer achieved at the natural Zo match, which other wise would not be possible without the tuner, and expect for the slightly greater loss due to the SWR, the power transferred is no different than that of a Zo match.

I'm sure a field strength meter would prove that mighty quick. Take a reading at

a freq you have a natural Zo match (1:1 SWR). Then tune off freq until you have say a 5:1 SWR, take another reading. The second reading should be less than the first. Now put in line a tuner, adjust for 1:1 SWR again, and the FSM reading should be nearly the same as the original natural 1:1 match.

>As I understand it, the latest majority thinking at the ARRL is: if
>the transmitter is more than 50% efficient, a conjugate match is not
>possible. Most of our class-C and class-AB amplifiers are much
>more efficient than 50% so, according to the latest thinking at
>the ARRL (if my understanding is correct), a conjugate match is
>not possible with the average ham rig.

Well, if that's their position, I would say they should read the old handbooks again. Maybe do the FSM test. Efficiency of the amplifier should have nothing to do with what kind of match you have between the transmitter/line/antenna. That's apples and oranges. (maybe tofu and beef)

In fact a lot of digital engineers are finding out the hard way about SWR and transmission lines when their high speed digital stuff starts bouncing pulses back at them, and they can't figure out why that 200 Mhz Pentium is glitching all over the place. Gee, they never taught us about that in college...(BTW, transmission line theory is starting to be taught again in some schools)

>I would love to be wrong about what I have gathered is the ARRL
>majority opinion. Please, somebody correct me if I'm wrong.

It's an up hill struggle when *the powers that are* declare the sky is green, and we can all see it's still blue....

73, Steve, KD1JV in NH

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: jeffa@ix.netcom.com (Jeff Anderson)
Subject: [8377] Re: Conjugate Matching
Message-ID: <199701092248.0AA25127@dfw-ix10.ix.netcom.com>

Cecil Moore wrote:

>
>

>As I understand it, the latest majority thinking at the ARRL is: if
>the transmitter is more than 50% efficient, a conjugate match is not
>possible. Most of our class-C and class-AB amplifiers are much

>more efficient than 50% so, according to the latest thinking at
>the ARRL (if my understanding is correct), a conjugate match is
>not possible with the average ham rig.
>

Notwithstanding our other disagreement on the definition of conjugate match, I tend to side with Cecil regarding the efficiency of a non-linear amp with a conjugate match. I can show it's not 50 percent at maximum power transfer for a simple circuit of battery, series diode (as the source resistance), and resistive load. This non-linear circuit's performance can be easily modeled by anyone via PSPICE, and I strongly suspect the analogy holds true for the more complex non-linear case of a class C amp (unfortunately, it's simulation is **much** more time consuming).

However, I have no opinion regarding the alleged stand of the ARRL regarding this issue.

Regards to Cecil et al.

- Jeff, WA6AHL

Now, back to our regularly scheduled program...

>Measurement can prove that an antenna tuner absolutely does achieve
>very close to a Z0-match and, except for losses, re-reflects all the
>reflected power back toward the antenna.

I agree with this.

>According to the theorem, a Z0-match guarantees a conjugate match.

Which theorem says this? The Conjugate Matching Theorem certainly does not. And I'll argue that Maxwell agrees with me, by this quote: "In other words, despite the conjugate MISMATCH (emphasis Maxwell's) at the output terminals of the amplifier, the matching network still cancels the Z_0 mismatch at the junction of the feedline and the antenna (i.e. we have a Z_0 match - Jeff), and thus matches the antenna to both the feed line and the amplifier." (This last bit is a bit ambiguous, but can be clarified...)

The conjugate **mismatch** hasn't gone away. It is important to note that, when Maxwell mentions matching the antenna to the amplifier, "we must keep in mind that when the antenna tuner is adjusted to obtain the match (such as the match in the previous paragraph - Jeff), the load is matched to the OPTIMUM LOAD RESISTANCE (emphasis Maxwell's) RL of the RF power amplifier, **not* the source resistance R_s (emphasis Jeff's) of the amplifier, which is the reason we cannot call the match a conjugate

match as we do with the classical generator."

In other words, we have a Zo match, but not a conjugate match.

(Note that one *can* have a conjugate match with a Zo match, it just isn't a 'given'.)

Both of these quotes can be found in Section 19-3 of chapter 19 within "Reflections." And I agree with them.

- J

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: jeffa@ix.netcom.com (Jeff Anderson)
Subject: [8278] Re: Conjugate Matching (ignore if you're lazy)
Message-ID: <199701090313.TAA10707@dfw-ix10.ix.netcom.com>

Hi Cecil,

Doggone it, I was hoping we were done with this!

I bet you're wondering now, "Does he agree, or does he disagree. Does he agree, or does he disagree. Does he..."

And I'm wondering, "Hmmm, how long can I keep him guessing?"

How long, indeed?

Shucks, not very long at all.

I disagree!

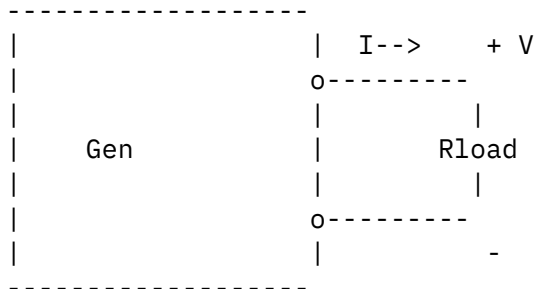
Cecil Moore wrote:

>Jeff, it's a no-brainer to determine what the source impedance is
>forced to be. Looking into the generator terminals, it is the vector
>voltage divided by the vector current. If there's 100 volts at zero
>degrees and 2 amps at zero degrees coming out of the generator
>terminals, the output impedance of that generator is $100/2 = 50$ ohms.
>This may or may not match the internal impedances of the generator and
>does not depend on any particular efficiency, amplifier model, or

>amplifier linearity.
>

Cecil, the 50 ohms above is **not** the generator's output (aka source) impedance. It is the **LOAD** impedance that it sees. And what you've described is a great way for determining the **LOAD** impedance **at** the generator's output terminals.

This is what you've described:

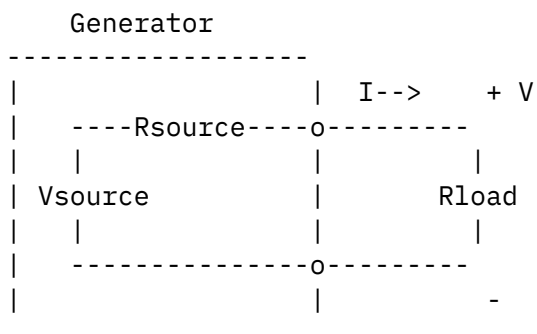


The voltage at the generator's output (V) = 100 V
The current out of the generator (I) = 2A.

$R_{load} = V/I = 50 \text{ ohms.}$

This is a basic definition, taught to all fledgling nerds in their first Basic Circuit Theory class. If they get it wrong the professor zaps them with 1000 volts and denies them internet access for a week. Cecil, about this definition we cannot argue. This is basic, basic, basic.

This is **not** the generator's source (also known as output) impedance. That impedance is seen looking **into** the generator's output terminals. Here is an example:



What is R_{source} & V_{source} for the example you gave? We don't know. But here are some things it could be:

Vsource	Rsource
-----	-----
200 V	50 ohms
300 V	100 ohms
400 V	150 ohms

(Or any other of an infinite number of choices). These all give the same V & I output when connected to a 50 ohm load.

How can we determine the actual values if, say, we can't open up the generator?

Well, if it is a 'nice' generator, we can find Vsource by simply looking at the "open-circuit" voltage (that's the voltage measured at the output terminals with no load, typically labeled Voc).

Then, we short the output and measure the "short-circuit" current (labeled Isc), and perform the following calculation:

$$R_{\text{source}} = V_{\text{oc}} / I_{\text{sc}}.$$

This method only works if the amplifier is a nice linear amplifier (linear over its entire operating range, even if short-circuited). If, say, the generator is non-linear (like a class-C amp), there are other problems, because the source impedance in this case can be affected by the operating conditions. None-the-less, we can still determine the source impedance. To do this, we can do a "load-pull" test. There's an excellent discussion of this in "Dynamic Resistance in RF Design," by William Sabin, in the September '95 issue of QEX.

Basically, connect a generator to a variable resistor, and set the resistor to the normal operating load impedance. Turn on the generator. Now, vary the load impedance slightly above and slightly below this normal load impedance and measure the voltage across it. We can calculate Rsource from the following equation:

$$R_{\text{source}} = (V_{\text{out1}} - V_{\text{out2}}) / ((V_{\text{out2}} / R_{\text{load2}}) - (V_{\text{out1}} / R_{\text{load1}}))$$

>Here's that example I promised. I can't explain it any better than
>this example illustrates. 52 ohms and 300 ohms were chosen because
>that combination results in half the power reaching the 300 ohm load
>being reflected back towards the generator.

```
>
>      52 ohms
> +---/\ /\ /\ \---o-----//-----o-----o SW
> |                                     /
```

```

> |                                     o   o
> |                                     |   |
> |               100 WL 52 ohm       5 /   / 3
> |               lossless coax       2 \   \ 0
> |                                     /   / 0
> |               ohms \           \ ohms
> |   104v             |           |
> +-----(Gen)-----o-----//-----o-----+-----+
>

```

>With the switch in the position shown, each 52 ohm resistor
 >will be dissipating about 52 watts. Then switch to the 300
 >ohm resistor. For 100 cycles the generator will continue to
 >output 52 watts with an output impedance of 52 ohms. But then,
 >half of the energy that hit the 300 ohm load was reflected and
 >hits the generator affecting the load line. This change in
 >generator characteristics is **caused** by the reflections. The
 >generator has no choice except to honor the laws of physics
 >and respond to the dictates of the rest of the system. Until
 >the reflections hit the generator, the impedance at the generator
 >terminals was $52\text{v}/1\text{a} = 52 + j0$ ohms, equal to the generator's
 >modeled internal impedance. But once the reflections hit, the
 >impedance at the generator terminals is forced to change to
 > $88.5\text{v}/0.295\text{a} = 300 + j0$ ohms.
 >

Right, "the impedance at the generator terminals (is) 300 ohms." And
 this is the **LOAD**, not the source resistance.

In the above circuit your source resistance is, and always will be, the
 52 ohm resistor to the left of the transmission line. It is not the
 300 ohms presented to the transmitter by the transmission line. That
 is the **LOAD**. And, for a conjugate match to exist, this **LOAD**
 impedance must be the complex conjugate of the source impedance.

Is it possible that the 52 ohm source resistance has changed to a
 different value because we now have a 300 ohm load instead of a 52 ohm
 load? You bet - a good example of this is a non-linear amplifier whose
 output V-I characteristic's slope changes at different operating
 points. But the resistor, as drawn, is still the source resistor, even
 though it may have a new value, and this new value still needs to be
 the complex conjugate of the load (as measured at the transmitter's
 terminals - see your 1st example) for there to be a conjugate match.

But don't forget, there are many cases where this resistance does **not**
 change with a change in operating point (i.e. change in load). A
 simple example is an op-amp with a 52 ohm resistor in series with its
 output - let's call this whole system our generator. Make the load 300
 ohms, the source resistance is still 52 ohms. A good real-life example

of this is a video driver in a 75 ohm video system. The driver will often have a 75 ohm resistor in series with the output of an amplifier, which then goes to a BNC.

Cecil, I don't know your source of the idea, as presented in your first example, that $V_{out}/I_{out} = R_{source}$, when in fact $V_{out}/I_{out} = R_{load}$. If it was stated as such by Maxwell, then there's no doubt in my mind why the ARRL hasn't reprinted the book, because he is dead wrong, and *any* book on circuit theory will verify this.

But I cannot believe that Maxwell says this. The parts of his book that I've read make too much sense, and this is such a fundamental concept (and fundamental error) that I cannot believe it would have slipped past the editor(s) & proof-reader(s).

Cecil, I really don't want to argue about this any longer. My definition of the fundamentals differs from yours, and I stand by mine. Nothing has changed.

Regards,

- Jeff

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Sandy W5TVW <ebjr@worldnet.att.net>
Subject: [8275] Re: Conjugate Matching (read if your are confused)
Message-ID: <19970109004320.AAB26841@LOCALNAME>

At 02:20 AM 1/9/97 +0000, you wrote:

>Yeap, must be a slow day on the list.

>

>Last night I found a nice description of conjugate and Zo matching in the
>1986 Handbook. Very clearly written and understandable. Cleared up some
>of my misunderstandings, which I repeated on the list a few days ago.

>

>

I have found, through many, many years in the HF maritime communications business, that what Maxwell write about in "Reflections" is pretty valid! I have seen instances of RF energy doing what it shouldn't do, and matching networks not doing what they should do! There are (or were) many engineers (E.E.'s!) who would write pages and pages about what should happen and prove it in theory, but when you get in the field, all their assumptions and proofs fell apart. This in spite of their careful simulations and tests and 'computer models'!

Maxwell tells you without all the hocus-pocus, how to get more "fire-in-the-wire".
Also where the "old wives' tales" like clipping coax until the VSWR was 1:1, come from.
Remember that largely in the 1950's and earlier, most hams didn't know what "VSWR" meant, but they managed to communicate nevertheless. This mainly in the days of link coupled and some pi-network output circuits in transmitters.

I do what I have to do to deliver a signal into the ether, the theory is 'secondary' to that end!

73,

E. V. Sandy Blaize, W5TVW

"Boat Anchors collected, restored, repaired, traded and used!"

417 Ridgewood Drive,

Metairie, LA., 70001

ebjr@worldnet.att.net

Looking for: Hallicrafters SR-75, 860 tubes

Butternut HV2V antenna, G-R test gear.....*

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997

From: Scott Cranston <cranston@zk3.dec.com>

Subject: [8303] Re: Crystal Radios

Message-ID: <9701091256.AA23953@alpha.zk3.dec.com>

> I came across a very neat book called the "Crystal Set Handbook" published
> by the Xtal Set Society.

Check out: <http://www.1stnet.net/~xtalset>

This is 'The Xtal Set Society' Web page.... fun stuff!

Scott

KB1NW

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997

From: wd4et@juno.com

Subject: [8312] Re: Crystal Radios

Message-ID: <19970109.094748.4294.0.wd4et@juno.com>

This subject really brings back memories!

I received a "rocket ship" crystal radio for Christmas in 1957. It had the piezo ear phone. The one that was flesh tone with a clear tube for the ear canal. Back in the fifties and sixties, there were lots of strong AM stations. The selectivity was such that you could usually select two or three of the strongest.

Several years after that, I built one in 7th grade shop class. The tuning coil was 65 turns of copper hookup wire on a shellacked bathroom tissue roll. In parallel with that was an air variable capacitor, a glass diode that must have been 3/16" in diameter and a .05 mfd electrolytic cap(?), feeding the same piezo ear phone. I can still remember the only station that it picked up. It was 50,000 watt WAPE in Jacksonville, FL. Between every song they blasted a Tarzan style yell. (yoo-eee-ooohhhh). Curiously, the remnant of that station is now the local talk station that has Rush and the Black Avenger every afternoon. (No political comments please. :)).

I also built one of the cat whisker crystal radios that was described in Boy's Life sometime in the mid sixties. It had a galena crystal held by a clamp. A "cat whisker" made from a safety pin was supposed to be experimentally placed for the detector. It never worked as well as the store bought diodes.

Enjoyed the nostalgia. I'm not sure my ears are good enough these days to listen to one of those old rigs.

73, Jeff WD4ET

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Steve Hideg <Steve.Hideg.1@nd.edu>
Subject: [8308] Re: Dayton Lists
Message-ID: <v03007802aefa9fc07820@[129.74.35.16]>

At 7:55 AM -0500 1/9/97, Richard D. Richmond wrote:

>In a recent post, Ed, N5EM suggested that a list of QRP flea market spaces
>would be a good thing to have for FIDM and I heartily agree. I would also
>like
>to suggest another list. Most of us are always on the look out for another
>rig, and even if we were not when we got to Dayton, we usually find something
>to drag home. My list suggestion is a collection of any of the suppliers
>(OHR,
>Dan's Small Parts, Small Wonder Labs, etc.) that will be at Dayton and the
>rigs
>(and any possible Dayton Specials) that they will be selling there. A little
>advanced advertising such as in QQ or Qrp and here on the net would help us

>plan for purchases and, I would think, generate a little business. At the
>risk
>of stepping in it with both feet, I will offer to collect any such information
>that the companies want to send me and post it here as well as get it to the
>FDIM people. Look forward to hearing from you folks.
>
>Rich Richmond, N4AFX
>richmord@aa.wpafb.af.mil

Rich,

If you're going to collect this, send it to me, and I'll put it on the
QRP-L web site.

--Steve

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Kevin Muenzler <muenzlerk@uthscsa.edu>
Subject: [8311] RE: Dynamic Range of Hearing
Message-ID: <01BBFE09.98784440@muenzlerk.uthscsa.edu>

On Wednesday, January 08, 1997 6:25 PM, d.nordquest@juno.com wrote:
>According to an old physics text I have, the threshold of hearing occurs
>at a power flow of 10^{-6} microwatts per square meter. At least until
>the invention of car stereos, the upper level of hearing was defined as a
>power flow of one watt per square meter, which causes not only sound, but
>also a tickling feeling in the ear.
>The range of power flow considered audible, then, is from 10^{-6}
>microwatts to 10^6 microwatts, a difference of 10^{12} (1,000,000,000,000)
>or of 120 decibels -- better than an NE602!
>
>Wonder if Joe's dog's nose beats that?
>
>
>
>
>

Dave KE9ED

The dynamic range of a human ear (average) depends greatly on
frequency. At 1 kHz the dynamic range is as Dave stated, about
120db. At that point the sound doesn't get any "louder" but
begins to get "wider". Similar to harmonic distortion in
electronics. You need to know how the ear distinguishes
frequencies to really picture what happens. But to make it as
simple as possible, think of the inner-ear as a tube with

with hairs lining this tube. A particular frequency resonates at a particular length in this tube and stimulates the nerves at that position in the tube. Like any electronic system the stimulation is in a region of the tube with a peak at the center of the resonance and falling off rapidly as you go above and below the center. As a sound gets louder it gets to a point where the nerves are saturated, just like a transistor. As a signal gets louder it stimulates the nerves along side of true resonance more and more. So once the saturation point is reached, the signal can only get wider not louder. At the lowest end of the frequency range, about 10 Hz or so, the dynamic range is about 80db. At the highest range, about 18-20 kHz, the dynamic range is about 100db.

Kevin

Legal stuff:

The opinions herein are my own and not necessarily those of the staff, faculty, administration, or lab animals (woof!) of The University of Texas Health Science Center at San Antonio or anyone else who is not me. The perceived length of this message may be slightly longer in Alaska and Hawaii. Your mileage may vary. Batteries not included. Certain options not available in Nebraska, West Virginia, North Dakota, Puerto Rico or anywhere north of ninety degrees north latitude.

Kevin R. Muenzler, WB5RUE	The University of Texas Health
muenzlerk@uthscsa.edu	Science Center at San Antonio,
	Department of Computing Resources

The difference between genius and	
stupidity is that genius has its	
limits. The only difference	I am Voltohm of Borg!
between stupidity and intelligence	Resistance is E/I!
is that intelligence may be	Power is EI!
artificial, stupidity is always	You will be attenuated!
genuine.	

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: TMOLL@aol.com
Subject: [8386] Re: Fargo... / ND / QRP expedition
Message-ID: <970109185819_1224729404@emout19.mail.aol.com>

Hi,

<< All this talk about ND reminds me of a movie I saw last month - ' Fargo '.
If you like dark (brutally dark) comedies in the European form, this
one is excellent...
>>

Well, I guess that's why people sometimes differ in opinion with the critics
- different perspectives. This might have been excellent from the "art"
perspective, but as a MN native (the movie actually takes place in MN) it
portrayed all Minnesotans as incredibly stupid Scandanavians that say "yahhh,
soooooorr" all day long. My daughter recently was travelling in Kansas and was
actually asked if all Minnesotans are like that in the movie! I assure you
that they are not - only about half of them are.

All this ND talk makes me think about scheduling a QRP expedition to the
border. Right now I only have 20m QRP capability, but will be all band in a
week or so. Anyone interested? It would be cool to be on the receiving end of
a pileup once!

Tom, N0BS

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: rhight@primenet.com (Roger Hightower)
Subject: [8323] Re: FS: Alinco DX-70T mobile rig
Message-ID: <199701091627.JAA11058@primenet.com>

The Alinco DX-70T package has been spoken for. Thanks to those interested.
72/73 de Roger N7KT Mesa, AZ Grid DM43cj
NorCal 40-9er, NC-40A, OHR Explorer 20, 30M, OHR400, HW-8, HW-9 and more to
come.
NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Jeff Grudin <grudin@pacific.vdbs.com>
Subject: [8283] RE: FSFD Puhleeze!
Message-ID: <32D46EEB.4C69@vdbs.com>

Florida Type Guys,

How about sleeping in an hour (or napping an extra hour) and staying up

for the California sunset?

9pm EST (0200 UTC for those so inclined) is only 6 pm PST. Some of us left coaster's have a hard time getting home from work in time to get a chance. My XYL and kids are already looking at me funny when I get home from work, walk through the door and directly into my shack skipping dinner every night. Then they hear me scream "YES" (or come out with my tail between my legs) and eat my cold dinner.

So if you can, let us know and I for one will rush home and into the shack to give it a try.

Thanks.

72 de Jeff AC6KW
grudin@vdbbs.com

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Bob Patten <n4bp@shadow.net>
Subject: [8296] RE: FSFD Puhleeze!
Message-ID: <Pine.SOL.3.91.970109014230.15322D@hyper>

On Wed, 8 Jan 1997, Jeff Grudin wrote:

> Florida Type Guys,
>
> How about sleeping in an hour (or napping an extra hour) and staying up
> for the California sunset?
>
Jeff, I work an overnight shift and must get some sleep before going in. But just for you (and with the hope that some others will look for me too), I'll try and get on 7.038 between 10-10:30PM EST before I leave for work. Don't disappoint me :-)

73,

Bob Patten, N4BP
Plantation, FL
n4bp@shadow.net

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: talljazz@teleport.com (Dan Presley)
Subject: [8371] RE: FSFD Puhleeze!

Message-ID: <v01530520aefb10db6540@[206.163.126.74]>

>Florida Type Guys,

>

>How about sleeping in an hour (or napping an extra hour) and staying up
>for the California sunset?

>

>9pm EST (0200 UTC for those so inclined) is only 6 pm PST. Some of us
>left coaster's have a hard time getting home from work in time to get a
>chance. My XYL and kids are already looking at me funny when I get home
>from work, walk through the door and directly into my shack skipping
>dinner every night. Then they hear me scream "YES" (or come out with my
>tail between my legs) and eat my cold dinner.

>

>So if you can, let us know and I for one will rush home and into the
>shack to give it a try.

>

>Thanks.

>

>72 de Jeff AC6KW

>grudin@vdbbs.com

Jeff & others-if you fix it to stay up late (08-1000 UTC) you might find
good prop. to the east coast. I have consistently worked Fla, NY, S,
Carolina, Tx. & various mid west states in the late hours. I proposed a
"night owl" event a while back, but didn't recieve too much interest-maybe
just some informal scheduling in conjunction w/ the FSFD events might
work-good luck.

Dan N7CQR

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997

From: Bill Myers <bmyers@destin.nfds.net>

Subject: [8301] RE: FSFD Puhleeze! ADDED FL TIME

Message-ID: <1.5.4.16.19970109062646.08cfe5a6@destin.nfds.net>

At 08:07 PM 1/8/97 -0800, Jeff Grudin wrote:

>Florida Type Guys,

>How about sleeping in an hour (or napping an extra hour) and staying up
>for the California sunset?

>So if you can, let us know and I for one will rush home and into the
>shack to give it a try.

Okay Jeff, and the rest. I will add 2100-2200 CST (2200-2300

EST/1900-2000PST) to my schedule on 3.710 +/- (novice band, my favorite place to hang out).

Had to drop off 8 minutes early this morning. Ran for 52 minutes, 0 contacts, 0 states, 0 new. Guess it's just too early, or no one needs Florida.

If anyone needs Fl and can't make it, drop me a note and we'll set up something...

See everyone tonight, or at least those that call/answer me...

72/73

--

Bill Myers KK4KF Grid - EM60rk
FISTS#2390 QRP-L#755 ARCI#9282 scQRPions#42 CQC#386
Snail Mail P. O. Box 178 Shalimar, FL 32579
e-mail <bmyers@destin.nfds.net>
homepage <http://destin.nfds.net/~bmyers/>
 (Reptiles/Emergency Services/Amateur Radio)
CHECK OUT THE FISTS INTERNATIONAL CW CLUB U. S. HOMEPAGE
<http://n9nvv.qrp.com/~fists> (That's N 9 N V V)

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Bob Hightower <ki7mn@dancris.com>
Subject: [8372] Re: FSFD:ND stns
Message-ID: <199701092233.PAA10359@dancris.com>

At 02:58 PM 1/9/97 -0600, you wrote:

>I've been watching the pleas for volunteers to put some of the rare states on
>the air. Many of us are looking for ND, for example. I wonder if we are just
>fooling ourselves. Does anyone know if there are any hams in ND, and if
so, are

>any of them QRPers? We could be standing guard over an empty mouse hole. :-).

>

>

Heck, is there really a North Dakota? Anyone been there?

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: rhight@primenet.com (Roger Hightower)
Subject: [8376] Re: FSFD:ND stns
Message-ID: <199701092247.PAA10999@primenet.com>

At 03:33 PM 1/9/97 -0700, Bob Hightower wrote:

>>

> Heck, is there really a North Dakota? Anyone been there?

>

>

>

Oh, yeah. Spent a couple of weeks in Fargo one late Jan/early Feb. Didn't see a soul outside, :-). I can't imagine trying to maintain a wire antenna there....too much ice on all the horizontal surfaces. Maybe they only have summer hams.

72/73 de Roger N7KT Mesa, AZ Grid DM43cj
NorCal 40-9er, NC-40A, OHR Explorer 20, 30M, OHR400, HW-8, HW-9 and more to come.
NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Joe Gervais <vole@primenet.com>
Subject: [8378] Re: FSFD:ND stns
Message-ID: <199701092249.PAA23536@primenet.com>

Bob (KI7MN) wrote:

>

> Heck, is there really a North Dakota? Anyone been there?

Yes, but they've never returned. Something about flying saucers carving up livestock, and lots of those U.N. Jeeps, maybe the occasional alien armada hiding behind comets....

:-)

Cheers de KC7NEV,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

Runnin' QRP so them aliens won't know where to find me....

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Jim Bennett <jbennett@ebmud.com>
Subject: [8380] Re: FSFD_ND stns
Message-ID: <32D576B7.54D4@ebmud.com>

> Does anyone know if there are any hams in ND, and if so, are
> any of them QRPers?

What? I didn't think there were any people in ND, let alone hams!! Hi!
:-)

Jim Bennett / W6JHB (jbennett@ebmud.com)
Supervising Systems Programmer
East Bay Municipal Utility District
Oakland, CA 94607
voice: 510.287.0224 / fax: 510.287.0373

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [8381] Re: FSFD_ND stns
Message-ID: <Pine.SUN.3.90.970109150727.15946A-100000@vortex.sage.dri.edu>

Hi All,

There is a fellow from Minot, ND, who I have chatted with
many times on 30m. Can't remember his call. Will post if
it's wanted.

Been in ND a number of times, but I didn't think they ever
had winter up there??? :-)

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada.....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Ken Lopez <kjlopez@earthlink.net>
Subject: [8288] Re: Hearing dynamic range?
Message-ID: <32D461D0.5549@earthlink.net>

Glen Leinweber wrote:

>

> Two recent posts, one about 3rd order intercepts and the other about
> hearing weak signals in noise, coagulated somehow in my grey matter
> (IN my head, not ON it) into this:
> What's the dynamic range of our ears?

Human Hearing varies with the individual and sensitivity changes with frequency. At the most sensitive point in our hearing spectrum, about 4KHz, our hearing "dynamic range" is about 120dB, referenced to 20uPascals=0dB Spl (sould pressure level), and 120dB Spl being the threshold of pain.

Ken, N6TZV

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Jim_Cadorett@3mail.3com.com
Subject: [8337] Re: HF6V
Message-ID: <8525641A.00634BB7.00@hqoutbound.ops.3com.com>

Does anyone in the New England area have much experience using an HF6V Butternut antenna with QRP?
What results did you(s) have? Farthest DX contacts? How long have you used it? Any bad experiences?

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: "Bruce C. Williams" <n9jcv@wwa.com>
Subject: [8270] Re: keathkit scope 10-4530
Message-ID: <Pine.BSI.3.95.970108194300.5600A-100000@shoga.wwa.com>

Duane,

I dont know if this helps or not. I have a schematic and calibration for 10-4540. If you would like a copy a send a SASE(2 units postage) to the following and I will return said copies.

Bruce Williams N9JCV

2105 Oakleaf Lane
Lake Villa, IL 60046

On Tue, 7 Jan 1997, duane wrote:

> does anyone have a service manual for the heathkit scope 10-4530 (or maybe
> 10-4350) I'm also looking for a manual for a Alda 103 80,40,20 meter mobile
> rig.
> thanks in advance
> Duane AB4BE
> <http://www.flinet.com/~duane>
> duane@flinet.com
> ab4be@amsat.org
>
>
>

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: talljazz@teleport.com (Dan Presley)
Subject: [8264] Re: N/T Fox report
Message-ID: <v01530513aef9a7868041@[206.163.126.74]>

Not a peep out here in Or.The bands are lousy in the 'early' evening, but
open up wonderfully around 07-1000 UTC. Good for us night owls-take a nap &
stay up.
Dan N7CQR

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Bill Todd <bill@techline.com>
Subject: [8334] Re: NW QRP Digital - QST got it WRONG
Message-ID: <1.5.4.32.19970110053201.0066c16c@mail.techline.com>

At 10:03 AM 1/9/97 EST, you wrote:

>Hi Bill,
> Glad to hear there will be someone else planning
>QRP RTTY in the upcoming test. I knew about the NW
>QRP RTTY test coming up but there is a serious problem
>in the posting in QST Contest Corral. They have the same
>weekend with the IDRA WW RTTY WPX test. (Feb,8)

NOTE: Gang - Here is the complete listing, showing the correct date of February 1st as the date of the contest. We intentionally chose this date so as to NOT place the contest at the same time as the IDRA Contest.

CUL, Bill-N7MFB

>Announcing the First NorthWest
>QRP Club Digital Contest
>By Bill Todd - N7MFB
>
>To QRPers everywhere, it would be safe to say that the favorite
>and most productive mode of operation is CW. It's my favorite
>mode too.
>
>However, QRP SSB contests have been popular for many years, and
>there is a growing number of QRPers who are giving \qrp a try on
>the digital modes.
>
>It may surprise some readers to know that you can actually com-
>municate pretty well on the HF bands with baudot RTTY (or Pactor,
>Amtor, etc.) even when the propagation isn't the best.
>
>It is with this in mind that the NW QRP Club has decided to get
>it's "feet wet" by sponsoring the first QRP Digital Contest.
>In setting up the publicity for this event, we contacted all the
>major Ham publications and the major digital mags/journals as
>well. Hopefully, some of the "Big Guns" will power down to QRP
>levels and join in the fun! They might also learn to respect our
>14060 QRP calling frequency too (one can only hope...)
>
>So, dust off that old TNC that's been collecting dust, fire up
>the old computer or dumb terminal and join in the fun!
>
>Date:
>Saturday - February 1, 1997
>
>Time:
>2/1/97 17:00 UTC to
>2/2/97 05:00 UTC
>
>Freq:
>80 thru 10 meters (no WARC bands)
>Note On 20 meters, use Amtor or
>Pactor from 14065 to 14080, and
>baudot RTTY from 14080 to 14090.
>*Do NOT transmit below 14065*
>

>Mode:
>Use Baudot, Pactor or Amtor only
>(HF Packet requires too many repeats)
>
>Power:
>QRP = Running 10 watts pep or less (maximum)
>
>Exchange:
>RS(T), NW QRP Member # (or power output
>if non-member), State/Province/Country
>
>Scoring:
>Submit the best 6 hours of the 12 hour contest for scoring.
>
>5 pts each for contacting NW QRP Club Member
>3 pts each for contacting non-NW QRP Member
>
>Classes:
>A. Single Operator (single transmitter)
>B. Multi-Operator (single transmitter)
>C. Club (single transmitter)
>
>Awards:
>Top over-all winner (all call areas)
>Top DX entry
>Top score from each US Call Area
>Top Club Score
>
>Submit your log by February 31, 1996 to:
>Stan Yarema, KG7ME
>NW QRP Club Contest Editor
>3457 12th West
>Seattle, WA 98119
>(or) send E-Mail version of your log to: bill@techline.com

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: WJ4PRandy@aol.com
Subject: [8363] Re:OCF dipoles
Message-ID: <970109162926_1957828997@emout08.mail.aol.com>

One day LB wrote:

"OCF is just one more way to feed a wire. Do not strain to make an OCF, because there is no magic in it. However, if the OCF is natural for your layout, then go for it, since it will work as well as center and end fed systems."

In my experience: AMEN! Antenna's have always facinated me from "day one" and like fishing lures they all work at least once in a while... My present antenna farm includes an OCFD because that is where the convenient feed point was. I have used single wires and coax with baluns and 300 twin lead but it hasnt worked nearly as well as with the 450 ohm ladder line feed of recent history. Apparently something in the location, my tuner, etc didnt like any of the other feed line schemes. However, they all did radiate something or other.

Of course, the 450 ohm ladder line scores very low on the "wife/esthetic" scale but it works like crazy and I'm not changing a thing!

Speaking of ugly, nothing was uglier than the 40 meter full wave loop I had up at an old QTH. The wire ran over the house and around the back yard on various supports mostly bent over telescopic poles from RS.

It was fed with RG-8M and the tuner "made it" work on all bands. This is the same antenna that I observed (and recorded!) several instances of echos of my own signal on 80 and 40 meters. Uh oh, now I'm rambling.... LDE observations and questions will be another posting...

73, Randy WJ4P

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997

From: Ed Pacyna <pacyna@auratek.com>

Subject: [8360] Re: Power MOSFET for RF?

Message-ID: <3.0.16.19970109162816.46afe660@galaxy.auratek.com>

There are a number of MOSFET devices designed and specified for switching applications which are also suitable for amplification at RF (but have not been specified/characterized as such).

My experience has been that MOSFET's with fast switching and low R_{ds} specifications have been the best bets for maximum gain bandwidth product. They can produce useful power with a 12V supply when biased at a higher I_{dq} level (this would enhance linear operation as well).

My last SSB transceiver project used 3 MOSFET stages between the Tx mixer and final 50 ohm load (.0001 to 10Watts) with a 13.8V supply.

Ed, W1AAZ

>Several weeks ago, someone mentioned a power MOSFET that was better suited
>for RF work than the IRF510/IRF511 devices. I seem to have lost the device
>number -- could someone send it to me again? Or, if you have a suggestion
>for a MOSFET that can deliver 5W or so output thru 10M and will operate
>efficiently (and linearly) from 12V, please let me know.

>

>Tnx and 72, Larry W1HUE

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>
Subject: [8362] Re: Power MOSFET for RF?
Message-ID: <Roam.3.0.1.852845756.7160.myers@bigboy>

Ed W1AAZ wrote:

> There are a number of MOSFET devices designed and specified for switching
> applications which are also suitable for amplification at RF (but have not
> been specified/characterized as such).

I've always thought it would be cool to characterize some of the popular devices, like the IRF510 family and the MTP3055E, with S parameters. While they're not an exact description of the device under power amplification, they're a pretty good starting point.

I had a very pleasant chat with Helge Granberg about this, trying to talk him into doing it ;-). At the time, he mentioned that he'd thought about it, too, but time was at a premium. Unfortunately, Helge can't help with this anymore :-(.

So, anyone out there with a S-parameter test set who would help characterize some switching FETs at HF?

Dana K6JQ
Dana@Source.Net

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Jeff Grudin <grudin@pacific.vdbs.com>
Subject: [8359] Re: Power of Pheromones
Message-ID: <32D55338.25F3@pacific.vdbs.com>

> -> Not to get too crude about it, but I've always been impressed with
> -> the dynamic range of a dog's nose. It can detect a lady dog a block
> -> away and
>
> I live in the country and I'd say the effective range of the dogs nose
> is more like a couple of miles when it concerns lady dogs.<g>

Alright, If we get a standardized pheromone sample and a group of dogs. We could attach electrodes to the dog's By measuring the stretch on the electrodes we could thereby develop a curve of the distance versus stretch of

the group of dogs. The group would allow for standard deviation curves to be made (eliminating those extra horny dogs and those that prefer food or other species) and we could get to the bottom of this once and for all.

There, I knew I could find a way to write off this email stuff. Hi Hi.

--

73 de Jeff AC6KW
grudin@vdb.com

-----QRP-L

#16 Private Practice : Companion Animals and Exotics
Norcal QRP #1292 Ocean Animal Clinic / Cat Clinic of Santa Cruz
Santa Cruz, California

QRP'ers do it with less energy (but lot's of enthusiasm)!

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Jim Lowman <jmlowman@ix.netcom.com>
Subject: [8364] Re: QLF/QHF
Message-ID: <32D568E0.54FE@ix.netcom.com>

L. B. Cebik wrote:

>

> Been under an influenza haze, but seem to recall a few comments to the
> effect that by the 50s and 60s, QLF and QHF no longer had assigned
> meanings.

>

> According to "combined Operating signals," CCBP 2-2, 1944, QLF meant "your
> frequency is slightly (or ---kc/s) low" and QHF meant "Your frequency is
> slightly (or ---kc/s) high." Applied to Air Corps and Army services.

Right after I got my General ticket in 1966, I remember some reference -
possibly
a cartoon in QST Magazine - that used QLF as "Try sending with your Left
Foot." :-)

By deduction, does QHF mean "Try sending with your Hind Foot?"

72 de Jim - KF6CR
San Bernardino, CA

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: "Thomas J. Whalen" <whalen@swcp.com>
Subject: [8345] Re: QRO brother-in-law's HW100

Message-ID: <Pine.SUN.3.91.970109120131.17398B-100000@kitsune.swcp.com>

On Wed, 8 Jan 1997, Steve N0TU wrote:

> I've almost convinced myself to resist the temptation of my
> brother-in-law's offer. He wants to give me his +QRO+ rig, an old HW100
> just for the price of shipping. I said I would think about it...The
> sleazy side of myself sez go ahead and get it! Maybe I could disable the
> finals(would this be hard?). Does anyone know what the 12BY7 driver's
> output is approximately?
>
> Hmmm...would it be hard to QSK the old beast?? WAIT!!!!..Worse
> yet...What if I plugged the beast in *just to see if it worked*... and I
> succumbed to using +QRO+ AAAARRRRGGGGHHHHH!...would my QRL-L e-mail ever
> find my IP again??...Would I be haunted by heavy QRO QRM from hear on!!!
> even if I said I was sorry? But really, is it worth the effort?...I
> sure could use a lil' more heat in this basement ham shack...Should I or
> shouldn't I... Maybe I could trade him a 38 special for it...Oh yeah..(I
> think he hates CW)? Blast! (;-0 Too many rigs now...soo little time
> now ...and definatly toooo few good antennae!
>
> Bewildered.....Steve
> --
> 73/72's_____D_E__N_0_T_U_____

> portable/solar powered QRP-----QRP-L # 911
> 49er/HW8/ExplorerII/Zepp in attic @ CO SPGS,CO-----ARS # 206

>
>

Hi Steve, when you mentioned a HW-100, I started to shake and get dizzy!
Listen to this story about my sons HW-100. My son bought the rig for
about 100 bucks and brought it home. We plugged it in the wall and all
seemed well. Tuned it up and it seemed ok. He wanted to try a lil cw so
he reached behind my "brand new" Ic-706 and tried to get the bug
unplugged. In his efforts to do so, the side of the bug touched the side
of the HW, and you should have seen the sparks fly!!!! What did I do?
I started praying, but to no avail. Yep, my son blew up my "new" 706.
After the tears subsided, I told him to remove that thing from my desk!
Any ow to make a long story short, check for voltages on the chassis.
This pwr supply on this rig had no ground and it also had some leaky
electrolitics which caused me much grief. The irony of it all is that my
son plugged the rig in a couple of days later and a BIG puff of smoke
belched out the top of the rig. The good part is that Icom fixed the rig
free of charge and yes, I have forgiven my son! 72, Tom

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Reitz_G@mediasoft.net

Subject: [8268] RE:QRP SSB What's it like
Message-ID: <1.5.4.32.19970109004117.00670ae4@mediasoft.net>

Joe, KC7NEV Glad you asked. Running with a WM-75 SSB 5 watts is just like the old days with good sun spots, and being on ten meters. During the day I get good reports of S-6, to S-8. The band has been very good the last few weeks.(75M)

So Joe have fun.

AD4EP Geo

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: "Jim Kortge, K8IQY" <jokortge@tir.com>
Subject: [8265] Re: QRP SSB: What's it like?
Message-ID: <1.5.4.16.19970109020230.24a7dc06@tir.com>

At 05:24 PM 1/8/97 -0700, Joe Gervais wrote:

>

>Ok you SSB veterans, help me out here. I think I'm going to
>try my first-ever non-CW operation during this weekend's QRP
>ARCI SSB Fireside Chat. Other than that I lack a fireplace,
>I seem to have all the requisite gear for this little party. :-)

>

>So my question: What can I expect? I guess my older QRP+
>only puts out a few watts at SSB, so I'm assuming that it'll
>be some rough going. Figure I'll stick to 15m/20m, since 40m
>has been wretchedly brutal even using CW.

All my QRP SSB experience is on 40 and 17. Both are great bands unless totally broken. You ought to be able to work anything over S9 out to 500 miles on 40, and out to 2000 miles on 17. This assumes decent wire antennas. A beam is certainly a plus, but I don't have one and do fine.

Most of my operating is under motion on the bicycle, so operation from the home QTH with the 130 foot inverted Vee is a pure delight.

>

>How many folks will be out there? Will I be hunting for 1-2
>stations even if the bands are open? Or are there usually
>marauding hoards of QRPers stalking the calling freqs?

Can't comment, because I have never worked a QRP contest, either CW or SSB.

Have fun...maybe see you on 40 or 17 with the Cascade. I'll

dust it off and see what is cooking!

72...Jim

Jim Kortge, K8IQY (ex NU8N)		BMHA, NorCal, QRP-L
jokortge@tir.com	__o	Cascade 17/40 SSB
Fenton, MI	_`<	Mizuho 17/40 SSB
...	(*)/(*)	...

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997

From: Richard Wilkerson <richqrp@pacbell.net>

Subject: [8267] Re: QRP SSB: What's it like?

Message-ID: <32D447DF.60D9@pacbell.net>

Joe Gervais wrote:

>
> Howdy Folks,
>
> (It's been getting down into the low 30s here in Phoenix.
> May not have to leave town for FYBO after all. :-))
>
> Ok you SSB veterans, help me out here. I think I'm going to
> try my first-ever non-CW operation during this weekend's QRP
> ARCI SSB Fireside Chat. Other than that I lack a fireplace,
> I seem to have all the requisite gear for this little party. :-)
>
> So my question: What can I expect? I guess my older QRP+
> only puts out a few watts at SSB, so I'm assuming that it'll
> be some rough going. Figure I'll stick to 15m/20m, since 40m
> has been wretchedly brutal even using CW.
>
> How many folks will be out there? Will I be hunting for 1-2
> stations even if the bands are open? Or are there usually
> marauding hoards of QRPers stalking the calling freqs?
>
> Please cc: the List if you can. Figure I'm not the only one
> sitting on the fence here. Thanks!
>
> Cheers de KC7NEV,
>
> -Joe, vole@primenet.com, AZ ScQRPions (Phoenix)
>
> "And then you must cut down the mightiest tree in the
> forest with... A HERRING!"

.....Joe I hope this really helps....." What is QRP SSB like?"

Joe, its like low power SSB!!!!

see ya... rich

--

Rich Wilkerson WD6FDD, Santee, Ca.

NorCal, ARCI, Qrp-L, ECRA

scQRPions

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997

From: SEAB&SHARON LYON <SSLYON@worldnet.att.net>

Subject: [8290] Re: QRP SSB: What's it like?

Message-ID: <19970109015058.AAA9378@LOCALNAME>

Squeaking personally, Joe, QRP SSB IS very much like DX SSB. Even easier without the skip--induced QSB, etc. one encounters over long paths. If you saw my note a few days ago, and Zack Lau's remarkable testimony to our list recently, you're in for a real treat. In the words of Bella Lugosi...

"donttt be 'fraidd... hit vonttt hortdd yew".

Jump rite in and start jammin'. I'm up for a sked when you're ready. 72 =s=

"Seab" Lyon, AA1MY

Bethel, CT; FN-31-HJ;

ARCI#9253; QRP-L#574;

ARRL; QCWA; B.C.I.

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997

From: ka7you@juno.com

Subject: [8297] Re: QRP SSB: What's it like?

Message-ID: <19970108.224038.8022.1.KA7YOU@juno.com>

Joe,

I use SSB quite often, but I don't get very good signal reports until they ask what the rig is. The old Ten-Tec Argo515 is the only multiband rig in the shack.

The usual response is "Well youre doing just fine for 3 watts. Not real strong but Q5 anyway". I usually get on 80 meters at night if I'm going to play with SSB.

That is my 3 watts worth-Go for it!

7 3

Rod Johnson KA7YOU

On Wed, 8 Jan 1997 17:24:21 -0700 (MST) Joe Gervais <vole@primenet.com> writes:

>

>Howdy Folks,

>
>(It's been getting down into the low 30s here in Phoenix.
> May not have to leave town for FYBO after all. :-)))
>
>Ok you SSB veterans, help me out here. I think I'm going to
>try my first-ever non-CW operation during this weekend's QRP
>ARCI SSB Fireside Chat. Other than that I lack a fireplace,
>I seem to have all the requisite gear for this little party. :-)
>
>So my question: What can I expect? I guess my older QRP+
>only puts out a few watts at SSB, so I'm assuming that it'll
>be some rough going. Figure I'll stick to 15m/20m, since 40m
>has been wretchedly brutal even using CW.
>
>How many folks will be out there? Will I be hunting for 1-2
>stations even if the bands are open? Or are there usually
>marauding hoards of QRPers stalking the calling freqs?
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>Please cc: the List if you can. Figure I'm not the only one
>sitting on the fence here. Thanks!
>
>Cheers de KC7NEV,
>
>-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)
>
>"And then you must cut down the mightiest tree in the
> forest with... A HERRING!"
>
>

From owner-qrp-l@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Bill Todd <bill@techline.com>
Subject: [8298] Re: QRP SSB: What's it like?
Message-ID: <1.5.4.32.19970109185811.00664310@mail.techline.com>

>So my question: What can I expect? I guess my older QRP+
>only puts out a few watts at SSB,

Hi Joe (and QRP-L)

I'm not an expert on QRP SSBing, but I have had my share of contest experience on SSB QRP power levels. The most important thing is to have a directional antenna (if you have one). It really make a big difference! On the last two SSB Sprints, I have used a 80 meter dipole on 20 meters, and only made a few contacts. And this was 5 watts with voice compression thrown in too! :-)

Also, be patient. It may take a number of tries before the other operator can hear you. Also, don't try to talk loudly into the mic, thinking that it might help. It really doesn't, it just makes your audio hard to read.

Good luck Joe!
CUL, Bill-N7MFB

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Richard Wilkerson <richqrp@pacbell.net>
Subject: [8310] Re: QRPP & QQ
Message-ID: <32D4F86A.5D3B@pacbell.net>

Larry Jones wrote:

>

> Greetings Gang...

>

> I have yet to receive my copies of QRPP or QQ. What about the rest of you?

>

> 72/73 & God Bless...

>

> dee-it dee-it

>

> ---

> Larry Jones N50SG	<><	NORTEX	QRP-ARCI	G-QRP	MI-QRP	CQC	NorCal
> 4028 Random Circle		NE-QRP	QRP-L	ARRL	NTMS	CSVHFS	
> Garland Tx 75043-3250		EM12QU	96.62 W LONG	32.87 N LAT			

>

MY QQ has been here for three days now And very good inside!

--

Rich Wilkerson WD6FDD, Santee, Ca.

NorCal, ARCI, Qrp-L, ECRA

scQRPions

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>
Subject: [8341] Re: RTTY QRP
Message-ID: <Roam.3.0.1.852835550.2331.myers@bigboy>

>

> Gang,

>

> I've seen this twice today in postings, 10W PEP RTTY.

> I don't think that it is QRP. Am I wrong?

I don't think you're wrong; RTTY is FSK, a form of FM. The FM limit should apply.

Dana K6JQ
Dana@Source.Net

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: Bill Todd <bill@techline.com>
Subject: [8347] Re: RTTY QRP
Message-ID: <1.5.4.32.19970110072320.0066a278@mail.techline.com>

At 06:11 PM 1/9/97 GMT, you wrote:
> Chuck Adams wrote:

>Gang,
>
>I've seen this twice today in postings, 10W PEP RTTY.
>I don't think that it is QRP. Am I wrong?

>Again, a subjective observation on my part.

Hi Chuck - You are not the first to comment on this 10 watt PEP issue regarding "QRP" RTTY. Since publishing this announcement over two months ago, other comments on this matter were sent personally to me, but now that you have written your concerns to the entire list, I suppose a public explanation is now in order.

** Yes, RTTY is a digital mode. However, have you ever tried to transmit
** RTTY by plugging your TNC into the CW jack of your transmitter?
Something to think about. Comments welcome.

Perhaps I am uninformed on this, but I do not think that the QRP ARCI has made an "official" judgement on the correct power level of QRP RTTY. If they have interpreted this...I am unaware of it. So, in organizing the contest, I had to set the power limit somehow.....

The motive here was to not only give the "died in the wool" QRPers a RTTY contest, but to encourage NEW operators into our ranks. And, since some of the older QRO transmitters are unable to "reach" the 5 watt levels without extensive modifications, I set the level at 10 watts PEP to include as many operators as possible in this contest. Why should we exclude the standard QRO-type operator who wants to give QRP a try?

This contest is being conducted for two reasons:

1. QRP RTTY is fun, and is a "lawful" aspect of the hobby. It was about time that a QRP Club sponsored such an event.
2. If we are going to gain just a little bit of respect for the QRP calling frequency on 14060, we have to educate the QRO digital boys just a little bit - not be shouting and complaining to them, but by encouraging them to JOIN US, and in the process convert a few to join the ranks of QRP operators.

If the standard QRO operators can experiment a little and TRY operating at lower power levels, they will be introduced to a goodly number of fine QRP folks! Also, if they want to participate in THIS contest, they have to operate no lower than 14065 in order to qualify for any awards.

SOLUTION: If a QRP RTTY contesteer wants to operate at 5 watts rather than at 10 watts, feel free to do so. Anyone who operates at 5 watts should NOTE THIS ON THEIR LOG ENTRY, and they will be given special recognition.

Group, does that sound like a good idea?

CUL, Bill-N7MFB
Pres. NW QRP Club

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: "Mark S. Adams" <msadams@acsu.buffalo.edu>
Subject: [8306] Re: SPARTAN SPRINT
Message-ID: <32D4EE0C.3E5F@acsu.buffalo.edu>

Hi OJ and Gang,

I would have posted my SP results but the ONLY QSO I had in 1.5 hrs at the rig was with *YOU*! What awful condx. And I only had my SWL-40 as my TT Cubbie was still in the shop for repair.

Better luck next month I hope.

--

72's de Mark, N2VPK, Member of the Buffalo QRP Connection

Owen Quarles wrote:

>

> Just wondering why there has not been more logs posted for the January

> spartan sprint. I have seen only three or four. Que paso?
> CU---K10J---OJ
> HOUSTON, TX
> QRP-L #732

From owner-qrp-1@Lehigh.EDU Thu Jan 9 18:06:12 1997
From: ed.welch@cheaha.com (ED WELCH)
Subject: [8263] Re: Using UTC
Message-ID: <8CFB465.00040015D7.uuout@cheaha.com>

-> MFJ makes a small, battery-powered station clock that has a world map
-> and all of the time zones. It allows for setting one's local time,
-> and for setting a second time, which would probably be UTC for us
-> hams.
-> It costs about \$25, as I recall. The XYL and I each bought one a few
-> months ago.

They've also got one for about \$20 that is simply two rectangular LCD
clocks with screens measuring about 1 7/8" long and 3/4" high. Actual
numerals are 5/8" tall and 1/4" wide. Easy to see. Thickness of each
rectangular clock is 5/8". Each clock slides into a single aluminum
frame which holds both. Easy to read local and UTC side-by-side. FWIW.

On a different topic....soldering irons. I'm getting ready to start on
several projects so I thought I'd look into a better(?) soldering iron.
The iron I'd been using was a Radio Shack 25w. Well, I happened into
LOWES Building Materials and looked in the handtool section. They had a
Weller #SP23 25W iron. I decided to get one. The primary thing I like
best about it, over the RS iron, is that the Weller's metal(hot!) iron
is 2 15/16" long whereas the RS iron had an iron length of around
4 1/8". The difference makes me feel that I have more control of the
iron in that my hand is actually over an inch closer to the work while
using the Weller. The cord, appears to be about 10" longer on the
Weller, too. Price was a tad under \$13 which includes a couple of
larger flat tips, the installed pointed tip, an interesting-looking
soldering "tool", and a little roll of some kind of solder.
Just thought I'd pass this on.

One last thing....<g>

While in LOWES I was cruising the aisles for prospective QRP goodies.
I happened upon some aluminum tubing. Naturally, the first thing to do
is grab a stick and see if the next smaller size will slide into the
larger stick. Perfect fit! :) Not sure what grade of aluminum it was,
but if you're toying with the idea of concocting an aluminum antenna you
might want to check out LOWES. The tubing was rather thick, and came in
8' sections. I don't really know if this would be good for antenna-work

as I've never had a large aluminum antenna to compare the tubing to.
Prices, as I recall, ranged in the \$8-\$10 range.

Disclaimer is that I have no association with LOWES other than I like to
cruise hardware/building supply stores. :)

Take care,

72/73

Ed Welch KF4KRV

QRP-L #873

Luverne, Alabama

Crenshaw County - Grid EM61

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+-----+
-----+ Norcal 40a es Straight Key es Wire-wrapped Trees +-----
+-----+
```

> Isn't "time" a 4-letter word? <